

RESUME

Stephen Harris

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Major Business Skills:

Software developer, technical business analysis (TBA),
business Intelligence (BI) developer

AGSVA Baseline Security Clearance

Work History

(presented in chronological order)

Date: Jan 2021 to present

Company: IT Business Consultancy (itconsultancy.biz)
(Austral)

Position: IT Consultant

Tasks:

1. Liaise with clients to gather requirements for proposed business solutions
2. Create high and detailed design documentation where required
3. Develop applications, mostly using Microsoft technologies
4. Publish and deploy completed applications on client ISP sites
5. Manage applications via contractual agreement.

Date: Aug 2020 to Nov 2020

Company: Department of Industry, Science, Energy and Resources
(Canberra)

Position: Solutions Architect (Contract)

Tasks:

- (1) create high level and detail design documentation for various proposed application implementations and systems configurations. I reported to an EL2 and liaised with key stake holders and with other department architects.
- (2) I employed architecture design patterns for optimal solutions
- (3) Where possible, I configured and tested proposed applications prior to creating detailed design documentation.
- (4) I used DevOps to manage projects and communicate to key stakeholders via Kanban boards and team dashboards.
- (5) I participated in architectural review boards
- (6) I used the Agile/Scrum methodology in all projects.

Date: Dec 2019 to May 2020

Company: Airservices Australia (Canberra)

Position: .Net developer/Business intelligence developer (Contract)

Tasks:

My main duties were to upgrade existing legacy applications to ASP.Net Core (3.1) Web applications. I was also tasked with developing new and maintaining existing SSIS, SSRS and SSAS applications:

- (1) Analyze and document business requirements.
- (2) Upgrade legacy applications (mostly VB 6 components and classic ASP web apps) to ASP.Net Core Web applications with RESTful Web API

- backend and Angular 8 SPA front ends. Several applications used Oracle as the RDBMS.
- (3) ASP.Net Core Identity, including JWT Web tokens, for REST Web API security.
 - (4) Create ORMs using Entity Framework Core
 - (5) ETL implementation using SSIS and reporting using SSRS. Maintenance of existing SSAS applications. Power BI for publishing charts, pivots and dashboards.
 - (6) xUnit for unit testing.
 - (7) Use of MS Visio to document ERDs, use cases, workflow and class diagrams.
 - (8) Create PowerShell scripts for MS Office automation
 - (9) Programmed LDAP using C# to allow logged in users to update their AD details.
 - (10) DevOps with Git repositories used for source code management.

Date: Jan 2019 to Aug 2019

Company: ACT Revenue Office (Canberra)

Position: Business Analyst/Programmer (Contract)

Tasks:

At the ACT Revenue Office my main responsibilities related to business intelligence design and development. I performed tasks such as

- (1) Interview key stakeholders for requirements analysis
- (2) Create design and functional specifications in conjunction with data scientists and data modelers.
- (3) Use MS Visio to document ERDs
- (4) Manage product backlog items, user stories, code reviews and issues using JIRA
- (5) ETL implementation using SSIS and reporting using SSRS.
- (6) Create Power BI presentation (visuals) of revenue dynamics.
- (7) Document logical and systems requirements and review solution design specifications.
- (8) Use Azure DevOps (VSTS) for continuous integration and continuous deployment. Source code stored in Git repositories. All of this was managed within the Visual Studio 2019 IDE.
- (9) Create RESTful Web API (.Net Core 2.0) interfaces that allowed developers to interface with data warehouses. JWT token creation and management for Web API security.
- (10) SharePoint integration and programming
- (11) Create ORMs using Entity Framework Core

My work here allowed data scientists to successfully apply data analysis to a wide variety of data sources. It also allowed developers to interface with the backend for reporting and analysis of ACT government revenue and compliance metrics.

Date: May 2018 to Nov 2018

Company: Australian Taxation Office (Brisbane)

Position: Analyst/Programmer (Contract)

Tasks:

- (1) Technical maintenance of the ABR – including bug fixes based on change requests and incident reports
- (2) .Net 4 development – mostly web forms and WCF services (SOA)
- (3) Configuration of SOA components in an ESB
- (4) SQL 2014 database maintenance and development – use of TSQL to produce and modify stored procedures and UDFs.
- (5) Generation of requirements documentation – including workflow, use case and class diagrams.
- (6) SCRUM – working in teams, morning stand-ups, use of DevOps to add product backlog items, user stories and work item tasks. Used Kanban boards to manage backlog items.
- (7) Use of VS TFS 2017 for source control and CI
- (8) Liaised with business analysts to ensure that ATO and whole government best practices were applied.
- (9) Integration testing of various components of the ABR

My work at the ATO helped to improve the ABR functionality.

Date: November 2017 to April 2018

Overseas travel (extended holiday)

Date: Apr 2017 to October 2017

Company: Dept. of Education (Brisbane)

Position: Analyst/Programmer (Contract) working in the Schools Management project

Tasks:

1. Agile/Scrum environment – sprints, user story estimates.
2. Web applications development → (i) client side - Angular 5/6, TypeScript, Bootstrap and HTML 5 (ii) server side - ASP.Net. Core 2 for MVC applications, EF Core ORMs and RESTful Web APIs
3. Database development and maintenance – relation database design (DDL), stored procedures, views, indexing (DML) – SQL 2014.
4. Production of SSRS reports using Visual Studio data tools.
5. Azure DevOps with Git repositories for CI/CD management.
6. Integration testing of the portals that comprised the Schools Management project

My work at the Dept. of Education helped the developer team to complete the Schools Management project. This application is being used by all state schools in Queensland.

Dates: May 2015 to Mar 2017

Company: Dept. of Communities
Child Safety & Disabilities (Brisbane)

Position: Analyst/Programmer (Contract)

Tasks:

1. Analysis and documentation of business requirements.
2. UML for use case, business process, forms mocking and class diagrams.
3. ASP.Net Web form applications – master pages - HTML, CSS, JQuery, Bootstrap, n-tiered, ORM using EF6
4. MVC applications with JQuery, HTML5 and CSS3 and Bootstrap on the client side.
5. ASP.Net REST Web API services.
6. Developed SPAs using Knockout, Angular 2, ReactJS and TypeScript.
7. Database development and maintenance – relation database design, stored procedures, views, indexing and UDFs – SQL Server 2014
8. Use Visual Studio 2016 to create databases using SMO.
9. Integration of text and CSV data sources into RDBMS using SSIS
10. SSRS report creation using RDLC report designer in Visual Studio 2016
11. Creation of WCF services used for asynchronous messaging to various service department endpoints.
12. Develop architectural solution documents (HLD and DD) for architecture review.
13. Unit tests and BDD
14. SharePoint integration and programming
15. Creation of end user and technical documentation
16. Server configuration – IIS, SQL 2014, MSDTC, Message Queuing, Active Directory.
17. Program LDAP using C# for SSO
18. Bug fixes and enhancements based on change requests and incident reports.

My work at the Dept. of Communities resulted in the development of several client/server applications, the conversion of several legacy applications from Windows 2002 compliant to Windows 2012 compliant and the generation of technical documentation. It also allowed me to develop solutions architect skills. My contract was extended several times.

Dates: June 2013 to Apr 2015

Company: Dept of Housing ITC (Adelaide)

Position: Technical BA/Software developer (Contract)

Tasks:

1. Produced functional and design specifications from requirements documentation.

2. Produce technical and test specifications based on functional specs.
3. Liaise with project managers and key stake holders regarding specifications, deliverables and ongoing issues.
4. Develop ASP.Net MVC applications using C#
5. Entity Framework Code First to generate models and CRUD pages
6. Code and test WCF web services
7. MS SQL Server 2008 R2 → tables, views, UDFs and stored procedures
8. Created Entity Framework as the ORM layer
9. Client-side apps using JQuery, CSS and Bootstrap.
10. Created automated unit tests (MS Test, Rhino Mocks) from specs
11. Used TFS for version control and reporting.

Dates: Jul 2011 to April 2013

Company: Fujitsu Australia

Position: Analyst/Programmer/Project coordinator (Contract)

Tasks:

1. Production of requirements, functional and design documentation using UML2, Visio and MS Word
2. Production of tests scripts from specs
3. Use Visual Studio 2010 to create databases using SMO.
4. MS SQL Server – ETL using SSIS, data warehousing using SSAS and reporting using SSRS.
5. Use of Codesmith to generate the backend data layer.
6. MVC applications development using ASP.Net C# and Entity Framework
7. Project co-ordination tasks in the absence of a Project Manager
8. Supervision of junior to mid-level developers (some team lead responsibilities)

Dates: Jan 2011 to Jul 2011

Company: Manheim Australia

Position: Analyst/Programmer (Contract)

Tasks:

1. Produced design documentation and functional specifications from existing requirements documentation.
2. Applications development using ASP.Net MVC3.
3. HTML5 for client-side presentation
4. Unit testing using MS Test and Rhino Mocks
5. SSIS for ETL and SSAS for data warehousing
6. Use TFS 2010 for version control and CI/CD.

Dates: July 2010 to Dec 2010

Company: Matrix Group

Position: Enterprise Architect/Analyst/Programmer

Tasks:

1. Methodologies:
 - Domain Driven Design (DDD)
 - Test Driven Development (TTD)
 - Data modeling
2. Technologies:
 - Fluent n-Hibernate.
 - Castle Windsor (Inversion of Control)
 - N-Depend 2010
 - TFS for CI/CD
 - FxCop for coding standards
 - PowerShell for SQL automation of administration tasks via scripts
 - MS Web Deploy for application deployment management.
 - SSIS for data integration
 - SSRS for reporting
3. Interview domain experts and produce UML documentation – use case, activity (workflow), sequence and class diagrams (using MS Visio) – workshops with key stake holders.

Dates: Nov 2009 to May 2010

Company: **Australian Bureau of Statistics**

Position: Analyst/Programmer – contractor

Tasks: (see below)

1. Analysis and documentation of user requirements. UML – use case, sequence and activity (workflow) diagrams to develop OOP implementation
2. Developed WPF WinForms application using C#
3. Oracle PL SQL for querying and stored procedures, triggers and functions
4. Production of MDX cubes using SSAS
5. Generation of menu driven reports using SSRS
6. WCF – HTTP and TCP services
7. Microsoft Visual Studio 2008 as the IDE

Dates: Nov 2008 to Aug 2009

Company: **Dept. Education, Employment and Workplace Relations (DEEWR)**

Position: Analyst/Programmer – contractor

Tasks: (see below)

1. Developed ASP.Net intranet and extranet applications in C#.
2. Creation of WCF components – consumed as Web services.
3. MS SQL Server 2005/8 – TSQL, indexing, security.
4. Use of Codesmith to generate backend data layer (datasets, table-adapters, strongly typed ORMs)

5. Unit testing using NUnit and MS Test (including Rhino Mocks)
6. CSS and Themes for formatting, consistency in design and faster download times
7. Team Foundation Server for CI/CD and versioning.
8. Agile approach - code and peer reviews, scrums, deliverables in sprints.
9. Microsoft Visual Studio 2008 as the IDE

Dates: May 2008 to Nov 2008
Company: **Southern Cross Telco**
Position: Analyst/Programmer – contract
Tasks: (see below)

1. Development of .Net 3.5 Intranet applications using C#
2. Production of WPF (XAML) Winforms
3. Creation of WCF components – consumed as Web services (HTTP)
4. Ajax controls with desktop look and feel
5. SQL Server 2005 TSQL, relational database development, Jobs creation and scheduling, use of SSIS for bulk uploading and workflow of from text files
6. Master pages, CSS and Themes
7. N-Unit and MS-Test, Rhino Mocks
8. Debugging and maintenance of existing .Net 2.0 Windows applications
9. Source code and versioning managed using Visual Source Safe
10. Production of technical documentation including requirements and design specifications and class diagrams using UML
11. Microsoft Visual Studio 2008

Dates: October 2007 to April 2008
Company: **Catalyst Interactive**
Position: Team Leader - Analyst/Programmer – contract
Tasks: (see below)

1. Project co-ordination tasks
2. Liaise with key stake holders, project managers and team members on an ongoing basis.
3. Prepare documentation relating to minutes, strategies, technical standards and matters relating to projects. Used MS Project to create work breakdown structures in Gantt charts and assign resources to projects.
4. Technical BA documentation, including test scripts
5. Performed database administration roles for SQL Server 2000 and 2005 databases. This included index maintenance, database backup, user management and general object management (tables, stored procedures and the like) and bulk uploads and workflow using SSIS.
6. Set standards for software development – this included naming conventions, applications architecture, security modeling, SQL and script

- injection prevention, error handling procedures, validation (data integrity), and source control requirements.
7. Application versioning and continuous integration using Team Foundation Server (TFS)
 8. Production of reports using MS Reporting Services (SSRS)

Dates: March 2007 to August 2007
Company: **John Hughes Group**
Position: Analyst/Programmer – contractor role
Tasks: (see below)

1. Systems analysis and design
2. Development of menu driven Intranet application using ASP.Net 2.0 – C#, 3-tier architecture, AJAX.Net controls including master/detail controls.
3. Production of technical documentation and user manuals
4. Backend using MS SQL 2005 and stored procedures via .Net components.
5. Master pages, CSS and Themes
6. Production of reports using MS Reporting Services (SSRS)
7. documentation using UML – state, activity, sequential and use cases diagrams.

Dates: September 2006 to February 2007
Company: **Lenards P/L**
Position: Analyst/Programmer – contractor role
Tasks: (see below)

1. Systems analysis and design
2. Liaise with project manager in relation to project deliverables (cost, time, scope and quality considerations)
3. Rewrite existing Intranet applications from ASP/VB6 to ASP.Net/VB.Net
4. Rewrite existing Extranet applications from ASP/VB6 to ASP.Net/VB.Net
5. Consultation and advice regarding infrastructure setup
6. Documentation of systems and production of user manuals
7. MS SQL 2005 – TSQL, Security, relational databases development.
8. Production of reports using MS Reporting Services (SSRS)
9. CSS and Themes

Dates: Feb 2005 to August 2006
Company: **MultiArray Computing**
Position: Analyst/Programmer/Web master – permanent
Tasks: (see below)

1. Create Web applications (ASP.Net 2.0)
2. Maintenance of existing client/server applications (C# 2.0)
3. Technical documentation of existing and proposed systems
4. Pre .Net development using VB6, SQL2000, COM, ASP and VBScript/JavaScript/HTML
5. Applications development using C#, ASP.Net, .Net components, Web Services (ASMX) and MS SQL 2000/2005 database development and maintenance.
6. Application solutions modeling using UML
7. Production of reports using MS Reporting Services (SSRS) and Crystal Reports

Dates: Dec 2004 to Jan 2005

Company: *Red Dalmatian P/L*
Position: Analyst/Programmer – Contractor
Tasks: (see below)

1. Development of e-Commerce application - DataCash payment gateway; C#, MS SQL Server 2000, components for various pipelines; transactions via stored procedures, ASP.net; JavaScript for client side processing.
2. Production of reports using Crystal Reports (v8.0)
3. Application interfacing with MYOB via data schemas and integration in SQL Server using ETL

Dates: May 2004 to November 2004

Company: *3M Pty Ltd*
Position: Analyst/Programmer – Contractor
Tasks: (see below)

1. Enhancements of and additions to existing PeopleSoft application – Visual Basic 6, MS Access 2000 and Crystal Reports 8.5.
2. Production of accounts application using C# and MS Reporting Services.
3. Development of metrics reporting system using C#, .Net components and SQL Server 2000.

Dates: Dec 2003 to Apr 2004
Company: *Prologic Information Systems*
Position: Analyst/Programmer – Contractor
Tasks: (see below)

1. Maintenance of existing applications – .Net C#, Visual Basic 6, MS Access 2003
2. Technical documentation of J2EE applications
3. Analysis and design work for Parks and Wildlife Services (Tasmania) application. This entailed:
 - a. Conducting workshops to determine requirements for proposed applications. Resulted in class, use case, sequence and activity UML diagrams.
 - b. Production of functional requirements and design specifications. This included data modeling and class and object diagrams (using Visio) and creation of Power Point presentations.
 - c. Liaison with project manager and key stakeholders
4. Develop dynamic reporting engines (using VB6) and reports (using Crystal Reports 8.5).
5. Production of in-house timesheet application using ASP.Net 1.1 (C# and .Net components)
6. Assist in project management of some major projects. This included production of work breakdown structures, weekly schedule reporting, liaising with clients regarding development of business cases and project developments.
7. Requirement and technical modeling using UML.

Dates: January 2002 to Nov 2003

Company: *Dept of Finance and Administration*

Position: Analyst/Programmer/project officer – Contractor

Tasks: (see below)

- Development of Intranet systems using classic ASP and ASP.Net. Support of such systems.
- Development of client/server applications using Visual Basic 6 and VB.Net
- Development of Internet systems – VB.Net, ASP.Net
- Design and development of workflow system using e-Work with SQL 2000 backend.
- Creation of OCX controls and COM objects for various applications (VB6 and VB.Net).
- Preparation of technical and solution design for systems development – MS Visio.
- Software developed using classic ASP, ASP.Net 1.1, JavaScript, VBScript, C# and VB.Net.
- Application modeling using UML.

Dates: February to November 2001
Company: ***St George Bank, Sydney NSW***
Position: Developer – Contractor
Tasks: pre .Net applications development

Dates: January to March 2001
Company: ***Australia Post, Sydney NSW***
Position: Developer – Contractor
Tasks: pre .Net applications development

Dates: Oct to Dec 2000
Company: ***MSP Books, Sydney NSW***
Position: Web Developer – Contractor
Tasks: pre .Net applications development

Dates: July to September 2000
Company: ***Address Express, Sydney NSW***
Position: Web Developer – Contractor
Tasks: pre .Net applications development

Dates: Feb to July 2000
Company: ***Education Testing Centre, Sydney NSW***
Position: Developer – Contractor
Tasks: pre .Net applications development

Dates: December 1999 to January 2000
Company: *Sydney Airport Corporation, Sydney NSW*
Position: Developer - Contractor
Tasks: pre .Net applications development

Dates: **February 1998 to November 1999**
Company: *American Express P/L, Sydney NSW*
Position: Developer - Contractor
Tasks: pre .Net applications development

Date: **January 1997 to February 1998**
Company: *Global Technology - Sydney NSW*
Position: Developer
Tasks: pre .Net applications development

Dates: **1996–1997**
Company: *Tele Systems - Sydney NSW*
Position: Systems Developer
Tasks: pre .Net applications development

Dates: 1993–1996
Company: *Harris Software Solutions (own small business) - Adelaide South Australia*
Position: Manager of small business

Tasks: pre .Net applications development

Formal Education

1992–1993	Diploma in Micro Computer Management at Adelaide College of TAFE
2005	Certificate IV in Small Business Management – Adelaide College of TAFE
2006	Diploma in IT Project Management – Sunshine College of TAFE
2007	Developing and Implementing Web Services (ASMX - C# 2.0) - Microsoft Certified Course
2017	Diploma in Health Science – University of S.A.

Interests

Music, information technology, socializing, photography

Software Skills Summary

Application	Area	Duration	Last Used
Agile	SDLC	9 years	2021
Angular	SPA programming	4 years	2022
Azure	PaaS and IaaS architecture	1 year	2021
Business Intelligence Developing	SSIS, SSAS, SSRS, Power BI	4 years	2020
C#	Win Forms, WPF, Web, WCF	Several years	2022
CSS and SASS	Web page styling	10 years	2022
DevOps	VSTS, Git repositories, SDLC management and communications	3 years	2021
HTML 5	Static web programming	6 years	2022
jQuery	JavaScript programming	5 years	2019
MS SQL Server 2008 to 2016	DDL and DML	Several years	2022
MS Visual Studio 2002 to 2022	ASP.Net and ASP.Net Core, class libraries, WCF, Unit Testing, Web/Win Forms, MVC, REST Web API 2, Blazor, EF ORMs	Several years	2022
MS Visio	UML diagrams	11 years	2021
PHP and MySQL	Programming	1 year	2017
React	SPA Programming	1 year	2019
TypeScript	OO/Type-safe programming	4 years	2022
VBA programming	Access/Excel/Word...	5 years	2019
VB.Net	WPF/Web	2 years	2018
VB 6	Programming n-tier applications	Several years	2020