

Mitchell Hancock

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Summary

I'm an integration developer with 10 years experience in across various Federal Government Departments. I'm experienced with a range of ESB integration suites and am currently focused on the revitalisation of an enterprise integration environment through the use of APIs.

Across all roles I've worked in, I've found communication skills and attention to detail to be the most important skills when working in integration. Both skills are key to relating to stakeholders and technical counterparts to ensure high quality and maintainable services.

Employment History

June 2021 - Present : Senior API Designer

Enterprise Integration Services, VCSD Branch - Department of Home Affairs

- NAPIDS-compliant API design and facade development of internal APIs using OpenAPI and IBM API Connect.
- Domain Driven Design analysis of business domains to deliver high quality APIs to meet requirements of the Digital Passenger Declaration program.
- Documentation and curation of training material to enable departmental staff to up-skill in API design and development.
- Gave a presentation to the CIO regarding the advantages of a shift from SOAP Services to RESTful APIs and how they can enable us to build value for the business more rapidly
- Mentoring and training of an APS ICT Cadet

November 2018 - 2021 : Senior Service Modeller

Enterprise Integration Services, VCSD Branch - Department of Home Affairs

- SOA service design, development and enhancements across a wide range of business domains, in close consultation with remote and local stakeholders.
- Lead effort to remediate one of the department's most complex services, the visa lodgement service. This was previously a single service with a ~13500 line XSLT, and is now a series of smaller services with more focused schemas based around business domains, and much more maintainable transformations each of which are closer to 1000 lines of code unique to each variant.
- XSLT development, maintenance and enhancement
- Mentoring and training of junior, and new to the department staff

November 2016 - 2018 : Integration Developer - Integration Operational Support Officer

Advance Services, Veterans' Systems Branch - Department of Human Services

- Configuration and installation of new ESB server environments. Initialisation of new integration domains, updates to application configuration stylesheets and deployment scripts, identification of application remediation activities to be shared within the team.

- Development and design of JMS based replacement of legacy in-house integration layer used for connecting front-end applications to mainframe data sources.
- Lead push to begin offering REST/JSON interfaces to ESB services, prior to this SOAP/HTTP and XML/JMS were the only supported transports. Offering REST interfaces started as no more than accepting the JSON equivalent of the XML payload, converting it to XML, reusing the underlying code and formatting the response as JSON. As I've gained experience with creating RESTful APIs these have evolved into developer friendly interfaces, without the additional cruft of their XML alternatives.
- Support and development of new transitional integration services as part of a larger organisational transformation project. This has involved direct and indirect integration of two separate ESBs, requiring close collaboration with another ESB team and technology stack to deliver project requirements.

February 2016 - November 2016 : Integration Developer - Integration Operational Support Officer

Application Environment Services - Department of Veterans' Affairs

- Deployment and environmental maintenance of a major CRM application, including infrastructure-level operational support. Identifying and resolving integration and other server-side issues.
- Design and development of a major enterprise services, including 'DocumentServices' which serves as the primary integration point to the department's corporate document store. Due to payload sizes, this solution relied heavily the use of out-of-band MTOM attachments to reduce the scalability of this service on our resource-constrained application servers.
- Configuration of Departmental File Transfers via TIBCO MFT, requiring collaboration with technical counterparts in external organisations. This also serves as an interesting automation point, as the product allows the execution of custom scripts upon transfer completion which has greatly sharpened my scripting skills. A recent requirement called for the conversion of a bulk PostScript file into many individual files which then are converted to PDF using a sequence of transfers and completion scripts.

October 2014 - February 2016: Junior Integration Developer

Application Environment Services - Department of Veterans' Affairs

- Monitoring and maintenance of integration services, ensured that incidents were resolved quickly and that problems were proactively resolved. This led to the development of automated Error and Undelivered JMS Message replay framework, used to ensure messages are delivered and consumed successfully where possible without unnecessary user intervention
- Integration service development and delivery of services primarily via SOAP/HTTP and XML/JMS messaging.
- Implementation and delivery of an Integration Service catalogue detailing all integration services, their consumers and their dependencies
- Mentor to later apprentice cohorts coming through the Department, this ranged from 'how to work as a developer in a professional environment' to specific hands-on development assistance.

January 2012 - September 2014: Apprentice Developer

Business Applications - Department of Veterans' Affairs

- Lead developer of a C# Windows Forms application used to grant White Cards to eligible Veterans. This included the application itself, its database backend and the consumption of SOAP/HTTP services used to integrate with the mainframe systems responsible for producing the cards.
- Java and JavaScript development for the modernisation of a legacy mainframe system
- Maintenance and minor enhancements to legacy business applications, across a range of languages including early C++, Delphi and VB 6 Office automation, in support of critical business functions.

Education

2017 - Present Bachelor of Information Technology - RMIT via OUA (expecting to graduate in 2022)

2020	Leading SAFe - Scaled Agile Framework
2020	SOA Analysis and Architecture Training Workshop
2020	Create, Secure, and Publish APIs with IBM API Connect v2018
2020	API Lifecycle Governance with IBM API Connect v2018
2020	Developing on AWS + AWS Technical Essentials
2018 - 2019	iOS App Development with Swift - RMIT Online Short Course
2015	ITIL Foundation Training
2015	Introduction to Functional Programming - NICTA
2014	TIBCO ActiveMatrix BusinessWorks™ 5.x Integration Boot Camp
2014	Essentials of TIBCO® ActiveMatrix™ Lifecycle Governance 4.x
2012 - 2014	Diploma of Information Technology (Software Development), CIT
2012 - 2014	Australian Public Service ICT Apprenticeship Program

Technical Skills:

Key Technologies: OpenAPI, Swagger, REST, JSON, YAML, JavaScript, Gateway Script, XML, XSLT, SOAP, WSDL, C#, SQL, Markdown

Development Environments: IBM API Connect v2018, Postman, IBM DataPower, TIBCO BusinessWorks, Oxygen XML Editor, SOAP UI, Visual StudioCode, SQL Server Management Studio

Platforms: Windows, Linux (RHEL, Ubuntu), macOS, iOS

Achievements and Recognition:

Spotlight Award - API Team for Permissions Base Capability - 2021 - Department of Home Affairs

Certificate of Appreciation '*Team Player*' - 2020 - Department of Home Affairs

'*Bright Spark*' Award - 2015 - Department of Veterans' Affairs

CIO Award - CIO's '*Value Add*' Award - 2013 - Department of Veterans' Affairs

Referees:

Upon Request