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Curriculum . Vitae

James Lewis Fraser

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Personal

- **DOB** 16.04.1987 25 yo
- **Nationality** Australian
- **Birth Place** Bacchus Marsh, VIC
- **Status** Engaged

Career Objective

- Tertiary study proved a catalyst, broadening my overall perspective in computer science, and the myriad divisions to which information technology lends itself.

An industry environment that emanates dynamic problem solving through technological solution, whereby members are engrossed in the application of modern technology to meet recurrent demand ultimately appeals. In addition, a collaborative team environment would facilitate my persistent ambition to continue learning.

Education

- **2010**
 - Monash University
 - Mathematics for Computer Science 1
- **2005 . 2009**
 - Deakin University Melbourne Campus
 - Bachelor of Information Technology (Computer Science and Software Development)
- **2003 . 2004**
 - Catholic Regional College Sydenham
 - VCE

Employment

- **2010** (current)
 - Defence Science and Technology Organisation (DSTO)
 - Software Engineer, Information Integration
- **2007 . 2010**
 - MDI Radiology
 - ICT Support, Software Development, Network and Domain Administrator
- **2006 . 2007**
 - Woolworths Limited
 - Night-fill Assistant and Customer Aide

Work Experience

- **2002**
 - Damovo Australia
 - Experience with appointed network data group

Positions of Responsibility

- **Organisation** DSTO
- **Department** Information Integration
- **Date** 2010 (current)
- **Duties**
 - Apply knowledge of Service Oriented Architecture (SOA) systems and graphics programming using high level programming languages.
 - Design and develop complex systems that enhance existing functionality (legacy).
 - Integration of new capability into the Defence Information Environment (DIE); specifically focused on the integration of (existing) high-level systems that specialise in the management and dissemination of intelligence.
 - Apply agile software development methodologies to engineer high quality software (iteratively) within a self-organising, cross-functional team.
 - Adhere to and implement Configuration Management (CM) processes that assist in the development of high quality software.
 - Effectively research and communicate cutting edge software development practices amongst my immediate team and the wider DSTO community.
 - Demonstrate functionality of engineered systems to other DSTO scientists and engineers/external clientele.
- **Organisation** MDI Radiology
- **Department** ICT
- **Date** 2007 . 2010 (current)
- **Duties**
 - Design, implementation, optimisation and management of multisite WAN infrastructure.
 - Data centre infrastructure, testing and management, system deployment, maintenance, monitoring, and overall cleanliness.
 - Counsel concerning new technologies and solutions.
 - Implementation and management of backup procedures for critical facilities both on and off-site.

- Enterprise wide antiviral proliferation and administration.
- Business oriented software development.

Projects

2012

- Evolutionary Layered Intelligence, Surveillance and Reconnaissance (ISR) Integration eXemplar Architecture (ELIIXAR)
 - Australian instantiation of an exemplar open source ISR integration SOA stack, providing functionality to store, index, federate and search ISR information and products across coalition enterprises. ELIIXAR is primarily comprised of Java, Java EE, Apache CXF, Apache ServiceMix, OSGi, MongoDB, Morphia, JavaScript, EXT JS 4, HTML, CSS and Ozone Widget Framework (OWF).

2011

- Empire Challenge (EC) 2011
 - Various exercises, where Australian ISR capabilities (software) were integrated and applied with U.S. and other coalition partners – including, Modelling & Simulation (M&S), Australian Defence ISR Integration Backbone (ADIIB) and Coalition Shared Data Server (CSD).
- CSD Harmoniser Human Machine Interface (HMI)
 - The CSD Harmoniser HMI is a Google Web Toolkit (GWT) HMI using Comet and GWT-RPC, that displays (live) log messages using gwt-log, a client/server logging framework, pushed from an underlying harmonisation Simple Object Access Protocol (SOAP) web-service.
- ADIIB HMI
 - The ADIIB HMI is comprised of a GWT HMI (Ext GWT) and a Java EE back-end (SOAP service-engine) for search/retrieval and alert notification of media that is decoded and ingested into connected (clustered) Defence Common Ground System (DCGS) Integration Backbone (DIB) and CSD nodes.
- Exchangeable image file format (Exif) Resource Adapter (RA)
 - A Java application using Swing/MVC that allows a user to decode and ingest Exif metadata from image media into a DIB Metadata Catalogue (MDC) alongside the original data product (image) for later search and retrieval.

2010

- UAV Controller
 - A utility application to enhance a simulation capability driven by AGI's Satellite Tool Kit (STK) – developed using Visual C#, Windows Forms and AGI's .NET API, the UAV Controller sits beside STK and enables users full run-time control of a UAV within an STK scenario.

2009

- Literature survey, Securing Virtualised Infrastructure
 - Both a literature survey and practical case study concerning open security vulnerabilities that plague virtualised infrastructure, namely server virtualisation, and potential mitigation techniques.

- **2008**
 - Union of MDI Radiology with alliance group GIG Imaging
 - Phased merging of existent radiology infrastructures – network provisioning, configuration and cutover, domain integration, DNS, DHCP, AD, modality convergence, RIS (Radiology Information System) and PACS (Picture Archiving and Communication System) installation and configuration.
 - University Final Year Project
 - Converged billing and directory application system – integrating pre-existent application systems, including: eB2BCom – View 500 Central Directory SE, nFocus – PABx Client, and TTI – Electronic Billing – into a web application prototype built using Java and JSP technologies (including JSF).
- **2007**
 - MDI Marketing application, code name mMarketing
 - A dynamic web application for support of (mobile) creation, storage and tracking of market oriented reports – built using Microsoft ASP.net (MVC), C#, HTML, JavaScript, AJAX, Microsoft SQL and Microsoft IIS v6.0.

Skills

- **Programming Languages**
 - Java, C#, C, PHP, JavaScript, AJAX, HTML, CSS, XML, SQL, Bash/Shell, and others
- **Version Control and Software CM**
 - DVCS (Git, GitHub, Mercurial), VCS (SVN)
- **DBMS (Database Management Systems)**
 - RDBMS (MySQL, Microsoft SQL, PostgreSQL, Oracle), NoSQL (MongoDB)
- **Operating Systems**
 - Linux (Arch Linux, Gentoo, Red Hat, CentOS, Fedora), Solaris, Apple OS X, Microsoft Windows Family, and others

Professional Development

- **2012**
 - Scrum Alliance: Certified Scrum Master
 - Fig Leaf Software: Fast-track to Ext JS 4 Development
 - Dynamic Web Training: Introduction to JavaScript
 - Red Hat: Red Hat System Administration I (RH124)
 - Red Hat: Red Hat System Administration II (RH134)
- **2011**
 - IBM: Defence Operations Platform (DOP) Enablement Course
 - LISAssoft: Professional GeoServer 1: Introduction to GeoServer
 - base2Services: FuseSource – Introduction to Apache ServiceMix & Apache Camel
- **2007**
 - Agfa Healthcare: IMPAX System Administrator Course
- **2003 . 2004**
 - CCNA: Cisco Certified Network Associate
 - CCNA 1: Networking Basics
 - CCNA 2: Routers and Routing Basics
 - CCNA 3: Switching Basics and Intermediate Routing
 - CCNA 4: WAN Technologies

Awards and Achievements

- **2008**
 - Golden Key International Honour Society
 - International recognition of high academic achievement to the top 15 % of undergraduate students across all qualifications.

Extracurricular

- Music
- Reading
- Hiking
- Gym
- Martial Arts
- Gaming
- All things `Linux`

Referees

- Available upon request.