

Craig Lawrence

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EDUCATION

University of Adelaide

Bachelor of Software Engineering (First-class honours); GPA: 6.3

Adelaide, Australia

2011 - 2014

Awards: 2013 Maptek Prize for the School of Computer Science

WORK EXPERIENCE

Binary Group Services

Backend Developer

Cyberjaya, Malaysia

Dec 2017 - Present

Trading platform: Generally responsible for developing and maintaining Binary's options trading platform. Working in Perl and Progres SQL.

GDPR compliance: Travelled to Malta to work directly with the European compliance team on preparing our database for complying with the EU's General Data Protection Regulation

Compliance automation: Working with the compliance team to automate current long manual processes. Requires integration of multiple components including Perl modules, Postgres functions, and cron jobs.

Pricing engine: Worked in a small group to prototype a new pricing engine written in modern C++. Configured Conan packages, upgraded futures code to C++14 standard, and prepared production Docker container.

Configuration management: Rewrote application configuration chronicle to replace monolithic tree structure with key-value system, and enable easier/faster data lookup.

ORM migration: Worked on migrating system away from Rose ORM to Moose modules

Document API: Improved handling of user submitted documents by preventing duplicate uploads.

Recruitment: Proctored hackathons for potential new hires in the backend department.

DXC Technology (formerly CSC Australia)

Associate Consultant: Technical

Adelaide, Australia

Feb 2015 - Nov 2017

Legacy migration: Migrating the development/build environment for a legacy Windows 9-x era application to a modern Windows platform, and developing unit tests.

Requirements management: Built an internal tool for managing and tracing requirements on Commonwealth contracts. Automated the generation of tables and matrices which previously required hours of manual work.

Logistics tool: Tool for managing the movement of physical assets in a government department. Implemented new features and bug fixes in large legacy Java codebase. Wrote automated integration tests.

Saab Systems

Undergraduate Software Engineer

Adelaide, Australia

Nov 2013 - Feb 2014

Front-end: Implemented UI improvements for a WPF/C# application.

Testing: Prepared acceptance tests for a prison security software package.

PROJECTS

Breadcrumbs (for Airborne Research Australia): A C++ application for tracking ground covered by airborne scientific instruments. I developed the algorithm for interpreting the GPS data. I also created plugins for Microsoft Flight Simulator X to aid testing.

RFID-PAM: Co-developed a RFID authentication module for Ubuntu. I wrote the Arduino code and PC-side driver for I/O with the device.

Reptar (for South Australian Museum): A web application for cataloguing and searching the museum's CT scans.

FrontDoor (for the University of Adelaide School of Computer Science): A Ruby of Rails application for scheduling casual teaching staff. Developed the front-end and co-designed a genetic optimisation algorithm

VOLUNTEERING

Robocup Junior Australia: Robocup Junior is an organisation dedicating to getting primary and secondary students involved in robotics and technology. I served as a volunteer official at the 2015 Australian Open competition.