

James Wilmot

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EDUCATION

University of New South Wales

FEB 2008–JULY 2011

Bachelor Science (Physics)

Select coursework: Extended Operating Systems

Advanced Operating Systems

Employment

This Little Duck

Sept 2014–*present*

PHP & Drupal Developer

The Scotney Group

May–Sept 2014

.NET Developer

Squashed CSRF and XSS vulnerability in form submission

Greatly simplified logging so that similar errors are grouped in ticketing system

SIRCA

June–Dec 2013

Junior Linux System Administrator

Simplified auditing Jira project permissions with a Python script (utilising Jira RPC service and parsing the JSON output)

Deployed complex Atlassian Confluence production upgrade with minimal disruption (4.x to 6.x)

NICTA

Nov 2011–Feb 2013

Research Engineer

Shaved 50 cycles (from approximately 600 cycles) off Inter Process Communication in the seL4 microkernel using benchmarking, GCC extensions and careful code re-writing

Contracts

The Lab Dee Why

June 2014–*present*

Mentor

The Lab is a network of technology clubs for 10 to 16 year-old young people diagnosed with High Functioning Autism who enjoy working with computers.

Conference Magic

Sept 2011–*present*

Audio Visual Technician

Organising and setting up audio/visual equipment for a major medical conference (Spring Seminar in Emergency Medicine.)

Primary Ethics

Aug–Dec 2013

Contract Developer

Developed add-on to Volunteer Management Software (OrangeHRM) to aid Primary Ethics in its regulatory reporting requirements.

Technologies: PHP, Symfony, MySQL, Javascript, AJAX, JSON

Volunteering

Primary Ethics, Volunteer Developer, 2013

Maintenance and improvement of generated Jasper reports for managing volunteers.

Technologies: SQL, Jasper reports

State Emergency Service

Member of Randwick Unit since March 2012.

Qualifications: Senior First Aid, Storm and Water Rescue, Maintaining Team Safety, General Rescue, Radio Operation, Introduction to AIIMS, 4WD Operation

Projects

Sydney Opera House, Hack the House

Developed, as part of a team, an iOS app to encourage tourist engagement with the Opera House while they are visiting. Part of a 24-hour ‘hackathon’.

Operating System, 2011

Operating System written on top of seL4 microkernel with virtual memory, a round robin scheduler, a file system, interrupts.

Part of Advanced Operating Systems course at UNSW.

Electronically Controlled College Room Access,
2010

Designed and implemented system to enable electronically controlled access to my college room.

Technologies: C, Arduino, Linux, glib, swipe card reader, hardware interfacing

Last updated: April 9, 2015