

DAVID G. CLARIDGE

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EDUCATION

<i>Bachelor of Science</i> (Computer Science) University of New South Wales	WAM 85.24	March 2007 - Present
<i>Higher School Certificate</i> Redfield College, Dural, NSW	UAI 98.50	February 2005 - November 2006

PROFESSIONAL EXPERIENCE

Software Engineer - NSW Roads & Traffic Authority July 2008 - January 2009
Infrastructure Systems Development Division, Parramatta, NSW (Co-op Placement)

- Developed web front end for internal package management software running on Solaris servers.
- Upgraded RTA Motor Registry software to be compliant with a new QMatic queue management and ticketing machine.
- Developed secure, on-line client and server software for councils to exchange vehicle registration details for the purpose of fining traffic offenders.

Academic Tutor - School of Computer Science & Engineering March 2008 - Present
University of New South Wales, Kensington Campus

- COMP1917 (Higher Computing 1) Session 1 2008
Designed and managed one major assignment, 1 hour/week tutorial, 2 hours/week lab supervision
- COMP1927 (Higher Data Structures & Algorithms) Session 2 2008
1 hour/week tutorial, 2 hours/week lab supervision
- COMP1917 (Higher Computing 1) Session 1 2009
2 hours/week tutorial, 4 hours/week lab supervision
- COMP1921 (Data Structures & Algorithms) Session 2 2009
1 hour/week tutorial, 2 hours/week lab supervision

Research Assistant - School of Computer Science & Engineering November 2007 - March 2008
University of New South Wales, Kensington Campus

- Modified Linux wireless and HSPA modem drivers to operate on the ARM platform.
- Developed scripts to prioritise and transmit data from a remote site and apply software updates.
- Developed an automated system for building a minimal Linux image for an embedded device.

Systems Administrator - Warrane College January 2007 - March 2008

- Configured a Debian Linux server with Samba, Scalix and iptables, used by 140 users.
- Provided configuration and environment support for day-to-day user enquiries.

Web Developer - Liquidation Direct October 2007 - December 2007

- Applied search engine optimisation techniques to an existing website.
- Configured and customised a content management system.

PHP Programmer - Hitech-Telecom Australia February 2007 - June 2007

- Implemented a SOAP API for a VOIP callback system.

Web Developer - New Media Foundation June 2005 - April 2007

- Heavily customised the 'Expression Engine' content management system for the MercatorNet.com e-magazine.

HONOURS & ACHIEVEMENTS

2009 Atlassian Robocode Competition - 1st place	
2008 CSE CiSRA Prize (\$2000)	
2008 CSE Performance Award	4th place in year 2
2008 ACM Programming Competition	4th place overall in Sydney region
2007 CSE Macquarie Performance Award (\$1000)	
2007 CSE Performance Award	1st place in year 1
2007 ACM Programming Competition	1st place year 1 team in Sydney region
2007 UNSW Co-op Scholarship (\$15900 pa)	
2005 HSC Software Design & Development	1st place in NSW

PUBLICATIONS

Hardware And Software For Continuous Monitoring Of The Vocalizations Of A Cryptic Parrot, in *Proceedings of Acoustic Communication in Animals Conference, August 2008* with Dr. Andrew J. Taylor et al.

COURSES & PROJECTS

- rUNSWift 2009 Team Member January 2009 - Present
rUNSWift is UNSW's RoboCup team, which competes at an international level. The project involves programming the Aldebaran Nao robot to play soccer.
- Apple University Consortium Cocoa/Objective C Workshop February 2008
This course taught various aspects of software design & implementation for the OS X platform, including Apple User Interface Guidelines and the Objective C language.
- Student at National Computer Science School Summer of 2005 & 2007
2005 Project: wrote a search engine from scratch in Python.
2007 Project: wrote a web application framework and wiki software in Python.
- Microprocessors & Interfacing Session 1 2008
Embedded systems design, including a major project written in assembly where I developed a simulated elevator control system.
- Cryptography & Distributed Systems Security Session 2 2008
My score of 91 placed me 2nd out of 70 students in this course.
This course provided a broad overview of security issues in the design of various systems including: social engineering, various software exploits, sniffing, firewalls, rootkits and tunnelling. As part of this course, my group presented a seminar on packet sniffing techniques and their impact.

VOLUNTARY WORK & POSITIONS HELD

- CSE Student Society: Arc (Union) Delegate 2009, President 2008, 1st Year Rep 2007
- 2007 CSE Volunteer Awards: CSESoc, CSE Revue, UNSW Open Day
- 2008 CSE Volunteer Awards: CSESoc, UNSW Open Day, CSE Mentor Program
- 2009 CSE Volunteer Awards: CSESoc, CSE Revue, UNSW Open Day, CSE Student Network
- Teaching Python to CSE students in a series of weekly 2-hour workshops in Session 1 2009
- Tutor at National Computer Science School, January 2008 & January 2009
Involved mentoring and supervising a group of 100 high school students, along with several other tutors and two academics, for a week long on-campus summer school at the University of Sydney. I managed two of the evening activities: the cryptography challenge & the simulation challenge.
- CSE Student Network Mentor 2008 & 2009
- CSE 1st Year Orientation Camp Leader 2009
- Reledev Philippines Work Camp, January 2007
Involved construction work and teaching English classes at a primary school in a disadvantaged part of the Philippines.