

DAVID G. CLARIDGE

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Australia
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EDUCATION

Higher School Certificate
Redfield College, Dural, NSW UAI 98.50 February 2005 - November 2006

Bachelor of Science (Computer Science)
University of New South Wales High Distinction Average March 2007 - Present

University of Texas at Austin University Honors with GPA 4.0 Fall Semester, 2010 (exchange)

PROFESSIONAL EXPERIENCE

Academic Tutor - School of Computer Science & Engineering February 2008 - July 2010
University of New South Wales, Kensington Campus

- Tutored first year computer science classes on C programming and Data Structures for five semesters. Duties included face-to-face teaching, lab supervision, designing and grading assignments.
- Tutored COMP3441 - Security Engineering, in semester 1 2010. Duties included lab supervision and grading papers.

Software Engineer - Ebix Australia August 2009 - January 2010
Software Development Team, Chatswood, NSW (Co-op Internship)

- Developed a web application for insurance quoting, using the .NET framework and NHibernate.
- Implemented upgrades to a SOAP API used by insurers to query a vehicle information database.

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

- 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.

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

- Assisted in developing software to identify and localise vocalisations made by the NSW Ground Parrot.
- Modified Linux wireless and HSPA modem drivers to operate on the ARM platform.
- Developed software to transmit data from a remote monitoring station and apply software updates.
- Developed an automated system for building a minimal Linux image for an embedded device.

Character references available upon request.

HONOURS & ACHIEVEMENTS

2010 University Honors at the University of Texas, Austin	
2010 UNSW Exchange Scholarship and Engineering Top-Up to attend the University of Texas	
2009/10 Taste of Research Summer Scholarship Best Poster Prize for research theme: 'The Digital Future'	
2009/10 & 2010/11 UNSW Faculty of Engineering Taste of Research Summer Scholarship	
2009 & 2010 UNSW Engineering Dean's Award	Ranked in the top 2% of the faculty by overall WAM
2009 Atlassian Robocode Competition @ UNSW	1st place team member
2008 CSE CiSRA Prize	\$2000 prize for most meritorious 2nd year CSE student
2008 ACM Programming Competition	4th place overall in Sydney region
2007 CSE Macquarie Performance Award	\$1000 prize for most meritorious 1st year CSE student
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 industry-linked scholarship
2005 HSC Software Design & Development	1st place in NSW

COURSES & PROJECTS

- rUNSWift 2009, 2010 & 2011 Team Leader January 2009 - July 2011
Achieved 2nd in the world as part of UNSW's RoboCup team, rUNSWift. The project involves programming the Aldebaran Nao humanoid robot to play soccer autonomously.
- Apple University Consortium Cocoa/Objective C Workshop February 2008
This summer workshop taught various aspects of software design & implementation for the OS X platform, including Apple User Interface Guidelines and the Objective C language.
- Software Systems Design & Implementation Session 1 2009
2nd in the class, with a mark of 96%. This course covered C++ template metaprogramming, several widely used C++ libraries, and build systems such as autotools, jam and CMake.
- Database Systems Implementation Session 2 2009
Mark of 94%. This course taught issues in the design and implementation of DBMSs, including practical work modifying the buffer manager and query optimiser for the PostgreSQL.
- Cryptography & Distributed Systems Security Session 2 2008
Equal 2nd out of 70 students with a mark of 91% 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.
- Selected to attend the National Computer Science School Summers of 2005 & 2007
2005 Project: implemented a search engine from scratch in Python. 2007 Project: implemented a web application framework and wiki software in Python.

VOLUNTARY WORK & POSITIONS HELD

- CSE Student Society: Arc (Union) Delegate 2009, President 2008, 1st Year Rep 2007
- CSE Volunteer Awards: CSE Revue (07 & 09), UNSW Open Day (07, 08 & 09)
- Taught Python to CSE students in a series of weekly 2-hour workshops in Session 1 2009
- Tutor at National Computer Science Summer School, January 2008 & January 2009
- CSE Student Network Mentor 2008, 2009, 2010 & 2011
- CSE 1st Year Orientation Camp Leader 2009
- Reledev Philippines Work Camp, January 2007