Stephen Sherratt

I'm a fifth year Computer Science student at UNSW, completing my undergraduate honours thesis at NICTA.

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Profile

I'm a fifth year Computer Science student at the University of New South Wales. I'm currently completing my honours thesis at NICTA, where I'm learning about operating systems, virtualization, and writing low-level systems code. My major hobby is programming; I spend lots of my spare time writing programs or learning new techniques.

I will finish my undergraduate degree and be ready to start full time work in July 2014.

Skills and Interests

Systems Programming

- Experience writing drivers, including for an RFID controller, and a userspace timer driver
- Wrote a multi threading library for the arduino as a personal project
- Strong knowledge of the C programming language and runtime environment
- Experience working with a number of different microprocessors and device controllers
- Capable of reading and understanding programming manuals for new hardware
- Completed UNSW's "Advanced Operating Systems" course, which involved implementing many operating system features from scratch
- Completing my undergraduate thesis at NICTA, which focused on the componentization of a virtual machine monitor

Application Programming

- Experience with a large variety of high level programming and scripting languages
- Understanding of computer networks and experience with socket programming
- Worked with a variety of database technologies
- Familiar with the Linux and seL4 system call interfaces

Web Development

- Develop web apps and web-based graphical demos as a hobby
- Competent in the use of many back-end web languages and frameworks as well as a great deal of javascript experience
- Personal projects include fractal demos, 3D graphical demos, a 4D graphical demo, isometric game engine, and blogging engine

Software Engineering Practices

- Familiar with the git, mercurial and SVN version control systems
- Worked in a team on large codebases including a virtual machine monitor and UNSW's robotic soccer team
- Currently leading a team responsible for maintaining the website of a UNSW society

Mobile App Development

- Written apps for Android and Windows Phone
- Can quickly learn new APIs

Work Experience

- (2011, 13 - present) Tutor for the School of Computer Science and Engineering
- (2013 - 14) Freelance web development
- (2011 - 13) Research Assistant at NICTA where I designed, built and programmed a device to automate testing
- (2008 - 09) IT Technician at computer store

Extra Curricular and Volunteer Work
Robocup

- Developed a behaviour framework for UNSW's robotic soccer team
- Travelled to The Netherlands to compete in the 2013 Robocup competition, where my team placed 4th in the world

UNSW Revues

- Involved in several theatrical societies at UNSW
- Currently head of the website team of "CSE Revue" - a comedy show run by UNSW computing students
- President of CSE Revue in 2013, and was one of the producers of the show
- Previously involved in the cast, tech crew, videos, website and executive teams for several different shows on campus

Volunteering for the School of Computer Science and Engineering

- Volunteered as a Mentor for CSE's Mentor Program which allocates first year students with older students to introduce them to UNSW
- Camp Leader for the CSE First Year Camp which is an event held early in the year to allow first year computing students to meet their classmates

Student Exchange

- Took part in a student exchange to the University of Toronto in 2012