Patrick Naish

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Personal statement

Currently in my third year at Southampton University, I am a Software Engineering MEng (http://www.ecs.soton.ac.uk/programmes/g600-meng-software-engineering-4-yrs) student with an interest in software design and security. I have a large amount of experience working in development groups, both within university work and in my own projects.

Qualifications

Course/qualification	Dates from and to	Education institution	Grade
MEng Software Engineering	2010-present	University of Southampton	TBC
A2 Mathematics	2009-2010		A*
A2 Further Mathematics	2009-2010		C
A2 Computing	2009-2010	St. Bartholomew's School, Newbury	A
A2 Physics	2009-2010		B
GCSEs	2006-2008		A*-B

So far on my course, I have taken modules in:
- Programming Principles
- Advanced Programming
- Discrete Mathematics for Computer Science
- Introduction to Formal Methods
- Digital Electronics
- Data Structures and Algorithms
- Software Engineering
- System Administration Tools and Techniques
- Computational Systems
- Human-Computer Interaction
- Software Analysis and Design
- Operating Systems
- Theory of Computing
- Professional and Legal Issues
- Principles of Computer Graphics
- Scripting Languages
- Hypertext and Web Technologies
- Management 1
- Database Systems
- Distributed Computing
- Communications and Networks
- Compiler Engineering
- Software Engineering Group Project
- Artificial Intelligence
- Computer Architecture
- Personal and Professional Development
- Engineering Maths for Computer Science

In the first year of my Software Engineering course I averaged a 1st overall. In my second year I averaged fractionally under a 1st. My third year, including a large individual development project, is progressing well so far.

Skills acquired
- A diagnosis of Asperger's Syndrome when I was 13 years old lead to me self-teaching my GCSEs, during which time I developed strong self-discipline and utilised my desire to learn to obtain my grades from A*-A, and one B.
- Working at the Newbury Library for several years has helped me to develop good interpersonal skills, and experience of handling sensitive data securely.
- My summer work at IBM Hursley gave me an insight into the workings of a software company, and an awareness of the teamworking skills and processes that are required in such an environment.
- My summer internship at Micro Focus gave me experience in working in a SCRUM team, with development in an OSGi framework.

Key skills and achievements
- My first programming language was C, which I started about 9 years ago.
- I am a reasonably strong Java developer, having several modules over the first and second years of my course that teach Java coding and best practices. I have also gained some experience in working with Jetty webservers and the OSGi framework.
- I can program in r5rs Scheme, thanks to my Computational Systems module.
- I did 2 weeks of summer work at the IBM Hursley Lab, during which time I helped to debug an internal Extreme Blue project (LogWeaver).
- I participated in the DevXS event (devxs.org), in which we were challenged to create a web application that provided a service to students. This was done in a group, over 29 hours, using Python. In our group, we created intr (intr.ep.io), which is a framework for society managements at university. This is currently being developed into a full system known as Treehouse (website pending).
- I am currently in a group of developers who are creating Owings (owin.gs), a system for managing group expenses. This is helping me to gain experience in Ruby and Rails, as well as general web development.
- I learned a significant amount of Javascript, including the dojo framework, during my internship at Micro Focus.

Employment history

Job title	Dates	Company/Team name
Volunteer	Summer 2008	West Berkshire Mencap
Summer Library Volunteer	Summers 2009, 2010, 2011	West Berkshire Libraries
Sunday Library Assistant	25/04/2010 – 27/06/2010	West Berkshire Libraries
Owings Developer	January 2012 – ongoing	Team Owin.gs
Summer Intern	June 2012 -September 2012	Micro Focus UK, Team Orion
Christmas Intern	December 2012	Micro Focus UK

Interests
Computer and system security, web applications, software development process.

Referees
Available on request.