**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**

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| --- | --- | --- | --- |
| **Course/qualification** | **Dates from and to** | **Education institution** | **Grade** |
| MEng Software Engineering | 2010-present | University of Southampton | TBC |
| A2 Mathematics | 2009-2010 | St. Bartholomew’s School, Newbury | A\* |
| A2 Further Mathematics | 2009-2010 | C |
| A2 Computing | 2009-2010 | 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.