

Josh Smith

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Overview

I am a second year Software Engineering student at Aberystwyth University looking for a challenging placement for my year in industry. My goals for the placement are to learn new skills while building on those I already have. Primarily I am hoping to gain valuable experience working within a professional environment and as part of a team.

Skills

Programming Languages Python, Java, C, Haskell, SQL
Version Control git
Databases Postgresql, MySQL
Operating Systems Linux, Windows

Examples of these skills can be found below in the Projects section.

Year 2 Modules

Semester 1

- o C, C++ and Environments
- o Data Structures and Algorithms
- o Scientific Python
- o Modelling Persistent Data

Semester 2

- o Software Engineering
- o Artificial Intelligence
- o Scientific Python (Extended)

Education

Aberystwyth University, Aberystwyth - Currently Studying

2015–present **BEng Software Engineering - Relevant year 1 modules listed.**

Programming using an Object-Oriented Language: 89%
Introduction to Hardware and Unix : 89%
Functional Programming : 88%
Introduction to programming : 76%

Aquinas College, Stockport

2013–2015 **Computing, A Level, B.**
IT BTEC, Level 3 BTEC, Distinction*.
Mathematics, A Level, D.

Stockport School, Stockport

2008–2013 **9 GCSE's A* - C, including Maths, Science and English.**

Projects

All of these projects *and more* can be found through my github at www.github.com/qinusty

2016 Telnet Game Server (Group project) - Python.

This was a group project I was involved in over the Summer during my Cyber Exposure course. We were put into groups of four and told to make a modular project where everyone could get involved, regardless of prior programming experience. It was a 3 day project and has 6 completed games playable from a telnet client. My job was to implement multi-threading, sockets and JSON serialisation to allow the games to run smoothly on the server and have all of the functionality requested by my group members.

2016 **Crypt-Chat - Python, Postgresql, git.**

This project follows a client server model for an end to end encryption solution for messaging. The server uses postgres to store the users name and password hashes for persistent accounts.

2016 **Multiplayer Battleships - Python.**

This project was a small networked project for me to get to grips with python sockets. The project allows two users to connect and take turns against eachother playing console battleships.

2016 **IRC BlackJack Bot - Haskell, git.**

I started this project as I began to read through 'Learn you a haskell for great good' to help me reinforce what I had learnt during my first semester studying Haskell. Messaging the bot when hosted allows you to play BlackJack against a dealer with a simple rule set. This project further interested me in Haskell and reminded me of how simple programs can be made.

Interests

Programming I enjoy working on personal programming projects and often find myself learning new skills and sometimes entirely new languages.

Travel I enjoy travelling when I get the chance, most recently I travelled to Belgium in early 2016 with a few other students to attend an open source developer conference (FOSDEM).

Experience

Summer Intern - HMG Cyber Exposure - 2016

I have spent 6 weeks of the summer on a Government sponsored Cyber Security internship working in teams and individually to solve problems and complete tasks assigned to me.

Robotics club volunteering - 2016

I have been volunteering at the local high school robotics club which has weekly sessions in our physics department where I help High school students between the ages of 11 and 16 work on a variety of robotics projects.

Student Demonstrator - 2016

I am currently employed by the University to help first years in the Functional programming and Introduction to programming modules. This role has given me the opportunity to help first year students gain the knowledge and understanding they will need to complete their assignments.

Student Ambassador - 2016

I act as a student ambassador during University open days. During these days I am assigned to my department and manage a group of visitors while answering any questions they may have as well as ensuring they get to their activities on time.

References

Nathan Mitchell

Cyber Security Trainer

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