

Professional profile

Second year Computer Science student at Royal Holloway University of London. Experienced programmer proficient in Python, Java, JavaScript and C#.

I have been programming for over 4 years exploring many projects in various programming languages. I have tackled numerous projects in Python, Java and JavaScript, completed an internship using JavaScript on a front-end system and have used C# during work experience.

Technical skills

- | | | |
|-----------------|---------------|---------------------|
| ➤ Python | ➤ Java | ➤ JavaScript |
| ➤ C# | ➤ HTML | |

Career summary

October 2019 – Current

PrineSec
Back-end Developer

Outline

Back-end developer working on machine learning aspects of security software

Key Goals

- Create a machine learning system that can detect potential security weak points in a system before they are exploited

July 2019 – August 2019

Medidata
Applications Engineer (Intern)

Outline

Front-end developer focussing on the implementation of a new testing framework

Key responsibilities

- The integration of the Cypress testing framework into the front-end of an existing system
- Replacing existing unit tests written for Selenium/Cucumber with tests compatible with Cypress

Key achievement/projects

- Fully integrated Cypress into the software system
- Migrated most tests from Selenium/Cucumber to Cypress
- Gained extensive experience working in agile software development

August 2017 – September 2017

Trace Solutions
.NET developer

Outline

Moved an existing software system to a newer, more up-to-date platform and format.

Key responsibilities

- Adapting a dated file management system by implementing new features not found in the old system
- Re-creating existing software features in C# from scratch
- Managing email admin rules

Key achievement/projects

- Taught myself C# prior to starting the work experience

- Successfully adapted various sections of the previous software system to a newer format
- Developed my time management skills when given multiple programming tasks simultaneously]

Projects

Machine Learning Snake using NEAT

JavaScript

Outline

Created a neural network program and machine learning algorithm from scratch along with a Snake game for testing and demonstration purposes

Key achievements

- Went from no knowledge to a full implementation of the NEAT machine learning algorithm from scratch in 3 weeks
- Gained an understanding of neural networks along with some algorithms used to train them

Space shooter game

Python

Outline

Participated in a group project to build a complete game using minimal libraries

Key achievements

- Built a custom physics system to handle collisions, wrapping and movement of objects
- Created an interactive, progressive top-down shooter

Education and qualifications

Royal Holloway University of London

2018 - present

- **Computer Science (1st predicted)**

Forest School, Snaresbrook

2011 - 2018

- **A Level Computing, Physics, Economics (BCC)**
- **GCSE Maths, English Literature, English Language (A*BC) with 7 additional GCSEs at C or above**

Hobbies/interests

- Played drums for 4 years achieving grade 5
- Trained in karate and taekwondo for 5 and 4 years respectively
- Rock climbing

References are available on request
