Sammy Spiers

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Summary

I am a recent Computer Science and Mathematics graduate from the University of Sheffield. I have keen interests in machine learning, data science and microservices, therefore I am eager to pursue career opportunities in these areas. I am an independent and enthusiastic individual who is very capable in any situation. Whatever task I am given, I am determined and dedicated to complete it. When I work as part of a team, I bring energy, new ideas and am a role model to other team members.

Experience

Enactus Code Creators   *Sheffield, GB*
MENTOR   *October 2019 - March 2020*

I volunteered for Code Creators Sheffield teaching Python to beginners. I boosted my programming skills as well as became a stronger communicator.

Boohoo   *Manchester, GB*
SOFTWARE ENGINEER PLACEMENT   *June 2018 - June 2019*

This placement was the year in industry as part of my degree. I worked within the back-end Java team. We were responsible for the development and maintenance of various micro-services hosted on AWS, which formed what was known as ESB. All the applications used Spring Boot. One of my tasks was to Integrate Zilingo, a new third party client into our systems and had to develop new APIs with Spring Boot as well as the corresponding Acceptance and Unit tests inline with our Test Driven Development practices. The job taught me how to conduct myself in a professional environment. It also allowed me to form work relationships outside my peer groups. I received an extremely positive reference from my manager that can be viewed on my LinkedIn.

Areté   *Mexico City, MX*
SOFTWARE ENGINEER INTERN   *July 2017*

Areté is a software company in Mexico City, which specializes in the development of applications that aid logistic companies. By optimization they can calculate the quickest and most cost effective routes. I was there as an intern over the summer and given the job to develop an Amazon Alexa Skill that drivers could use to ask questions such as "How long till the next destination?".

Amnesty internationaldd   *London, GB*
IT INTERN   *July 2015*

Being an intern in the IT department at Amnesty International involved the set up of large-scale video conference calls. I found it particularly interesting how we solved the difficulties surrounding this, by the use of specialized software.

GLL   *London, GB*
RECREATION ASSISSTANT   *December 2014 - September 2016*

My responsibilities included patrolling the swimming pool, keeping customers safe, setting up equipment, keeping the environment clean; answering customer questions and attending monthly training.

Skills

Programming	Java, Python, R, JavaScript, Ruby, Haskell, Shell, SQL
Frameworks	AWS, Jenkins, Spring Boot, Apache Camel, Express.js, MongoDB
ML Frameworks	NumPy, SciPy, Scikit-learn, Basic Tensor-Flow
Mathematics	Linear Algebra, Advanced Calculus, Statistics, Machine Learning
Personal	Teamwork, Agile
Languages	English, Spanish

Education

The University of Sheffield *Sheffield, GB*

BSc Computer Science and Mathematics with a Year in Industry *September 2016 - July 2020*

- Degree classification: 2.1
- Key modules with marks:
  - Adaptive inteligence (79): Developed a feed-forward neural network for image recgnition from scratch in Python using only NumPy. Also programmed SARSA and Q-Learning for a learning agent. Learnt about the mathematics of supervised learning and reinforcement learning.
  - Data-Driven Computing (71): Created a machine learning model for OCR with a k-nearest neigbour algorithm. Also learnt about unsupervised learning algorithms.
  - Software Hut (69): Developed a web application for the real-world client in Ruby on Rails.
  - Complex Analysis (64): Investigated functions of a complex number.
  - Computational Inference (63): Theory of Monte Carlo Methods, Bootstrapping and Simulation as well as how to implement these methods and ideas in R.
- Awarded the Software Hut Prize as part of the Software Hut module. The prize is awarded once annually in recognition of software development for a real-world client.

Stoke Newington Secondary School & Sixth Form *London, GB*

A levels *September 2014 - July 2016*

- Mathematics A
- Further Mathematics B
- Physics B

References

Available on request.