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Aran SmithA long, thin rectangle to divide sections of the document

# CAREER SUMMARY

Recent MSc. graduate with about 3 years work experience between software engineering, quality assurance, and research. My most recent experience has been developing machine learning models, and conducting robotics research. I am flexible, and I have a passion for learning, innovating, and following the most recent developments in machine learning research.

# SKILLS

Python, Java, Machine Learning, Deep Learning, Reinforcement & Online learning, Research, Git, Agile, Scrum, SQL, Jenkins, GCP compute, AWS EC2.

# EXPERIENCE

## Fidelity Investments, Dublin/Galway *— Associate Performance Engineer*

SEPTEMBER 2016 - SEPTEMBER 2018

* Executed performance tests ensuring internal site/service uptime during peak user/transaction loads.
* Overhauled the team’s git use making project maintenance, documentation, and handover easy. This Improved the team’s QOL.
* Collaborated in daily scrums, sprint planning and retrospectives, and updated the team’s Jira task board.
* Elicited performance requirements from and communicated performance results to business partners.

## Fidelity Investments, Dublin *— Trainee Software Engineer*

APRIL 2015 - SEPTEMBER 2015

* Developed a Cassandra NoSQL POC with the Spring framework invoking Cassandra functions via REST calls within a supervised team of interns.
* On completion we provided a reference to integrating Cassandra with the company’s tech stack.
* Communicated the merits of Cassandra and ideal use cases to fellow engineers throughout.

## University of Skovde, Sweden *— Research Assistant*

JUNE 2014 - AUGUST 2014

* C++ project debugging a PhD’s thesis code that used Fourier transform to localise sound sources.
* Enabled child-robot interaction trials by designing a workbench to host the NAO robot and cameras for the EU’s DREAM project. https://www.dream2020.eu/
* Reduced onboarding time for researchers by writing C/C++ best practices, and a software installation guide for C/C++ on the NAO robot.

# EDUCATION

## University of Southampton, UK *— MSc. Artificial Intelligence*

2018 - 2019

* Graduated with a distinction grade.
* **Dissertation:** Applied novel evolutionary and reinforcement learning algorithms to allow a robot to adapt and recover like an animal.
* Used few-shot learning to train a rudimentary CNN classifier with just 5 or 10 images.
* Worked with healthcare data to train and fine-tune different deep-CNN classifiers to identify levels of diabetic retinopathy in patients’ retina scans.

## Dublin City University, IRE *— BSc. Computer Applications & Software Engineering*

2012 - 2016

* Graduated with a 2.1 honours grade.
* **Final year project:** Developed an android app to automatically retrieve item-price pairs for expense logging using Tesseract OCR.
* Developed Java REST APIs using the Spring Boot framework.