Benjamin Sturgeon

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EXPERIENCE

SINGULAR SYSTEMS | DEVELOPMENT INTERN
November 2018 – December 2018 | Cape Town, WC
- Developed a full-stack solution to display Airbnb property locations in Cape Town within a google maps framework.
- Worked within a team to develop automated website testing systems for long-term clients.

RHODES UNIVERSITY IT | TECHNICAL STUDENT HELP-DESK SUPERVISOR
September 2018 – November 2019 | Rhodes University, EC
- Oversaw the proper interaction of student technicians with clients.
- Conducted a significant number of interviews for 2 years of help-desk applicants.
- Helped to systematise more commonplace solutions by creating and propagating guides for users.

HALO WORLD | ROBOTICS AND COMPUTER VISION INTERN
January 2020 - April 2020 | Tokyo, JP
- Created a system for robots to detect obstacles within a certain distance threshold using ROS and intel Realsense.
- Created a deep-learning model for an autonomous, concrete smoothing robot for quality control.

CARSCAN | COMPUTER VISION AND DEEP LEARNING INTERN
May 2020 - August 2020 | Johannesburg, GP
- Spent time researching and building neural nets for the purpose of OCR in the context of car dashboards.
- Researched methods of deploying neural nets on edge devices and successfully deployed OCR project to android mobile device.

PROJECTS

ODOMETER OCR | CARSCAN INTERNSHIP PROJECT
June 2020 – August 2020 | Johannesburg, GP
- Built a deep learning app from end to end designed to parse and read odometer values from a car dashboard.
- Annotated learning data for 2 different models.
- Experimented with multiple frameworks to achieve high accuracy in the final result.

RESEARCH

LINUX RNG SECURITY ANALYSIS | FINAL YEAR THESIS FOR COMPUTER SCIENCE HONOURS
Feb 2019 – November 2019 | Rhodes University, EC
- Wrote a literature review surveying the current vulnerabilities in the Linux RNG system and analysing the most promising solutions to those vulnerabilities.
- This research included extensive work done in the testing of RNGs within virtual machines in minimal entropy environments.

EDUCATION

RHODES UNIVERSITY
BACHELOR OF SCIENCE HONOURS IN COMPUTER SCIENCE
Received Dec 2019 | Grahamstown, EC
BACHELOR OF ARTS HONOURS IN PHILOSOPHY
Received Dec 2018 | Grahamstown, EC
Dean's List (First year)

SKILLS

PROGRAMMING
Confident:
Python
Familiar:
F# ● JavaScript ● C# ● C++ ● Java
Some experience:
VHDL

TECHNOLOGY
Git ● VMware workstation
Windows ●Linux(Ubuntu/Debian)
Pytorch ● Tensorflow
ROS ● Vivado

COURSEWORK

GRADUATE
Computer science:
Machine Learning
Security
Hardware Logic Design and Analysis
Computer Architecture
Parallel and Distributed Processing
Computer Vision
–
Philosophy:
Philosophy of Education
Philosophy of Work
Philosophy of Life

UNDERGRADUATE
Functional Programming
Programming styles
Operating Systems
Compilers

LINKS

Github:// **BenSturgeon**
LinkedIn:// **Benjamin Sturgeon**
Codewars:// **Abraxasu**