

## 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

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Philosophy:

Philosophy of Education

Philosophy of Work

Philosophy of Life

### UNDERGRADUATE

Functional Programming

Programming styles

Operating Systems

Compilers

## LINKS

Github:// **Ben**

LinkedIn://

Codewars:// **Abraxasu**