Aksh Ravishankar

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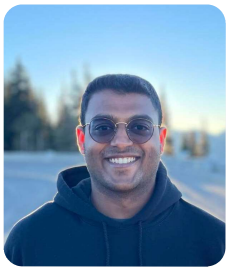

Education

B. Eng. | Sept 2018 – April 2023 | Carleton University

- Major: Computer Systems Engineering with a GPA of 3.7.
- Related coursework: Computer architecture, Object-oriented development, Data structures and algorithms, Intro to machine learning, Network and cyber security, Communications engineering, Project management

Experience

Software Quality Assurance Intern | Circle NVI | May 2021 – July 2022

- Proposed, developed, and maintained a scalable **automated testing framework** using Selenium/Python.
- Responsible for performing and documenting **software testing** steps on various platforms.
- Designed medium-fidelity **mock-ups** and architecture plan for mobile app.
- Implemented a **Continuous Deployment pipeline** to optimize development and testing workflow.
- Worked with customers to gather requirements and usage workflows.
- Used and maintained Docker environments in Linux to simulate deployment.

Infrastructure Intern | Hatch Ltd. | May 2018 – September 2018

- Worked with Light Rail Transit team to analyze traffic flow using simulation software.
- Worked with Software Development team to build in-house simulation integration tool.

Teaching Assistant | Carleton University | January 2021 – Current

- Responsible for helping students understand and apply concepts from Python and C/C++ courses.
- Worked with professors and coworkers to improve course delivery using student feedback.

Student Outreach Representative | Carleton University | December 2019 – December 2022

- Reaching out to prospective students and answering queries about program specifics and university life.
- Documenting interactions between students and callers.

Projects

StaySafe

- Developed a person-tracker device that counted people entering and exiting a doorway to keep count of the number present in a store; designed to help reduce the spread of COVID-19 in small indoor spaces
- Built using a Raspberry Pi and a connecting app that can be installed on any android device to share a live video feed.

Autonomous Car – Lane Following System

- Implemented an edge-detection-assisted Deep Learning hybrid model to identify lane boundaries in real-time in an autonomous car.
- Used traditional optimization techniques and pre-processing to reduce layers and analyze live video on-device.

Skills

- *Languages*: Python, Java, C/C++, Verilog, Linux/Unix Kernel, Windows Command Line, Bash
- *Tools*: Deep Learning (CNN), Computer Vision, TensorFlow/PyTorch, OpenCV, Git, JIRA, TeamCity, BitBucket, Docker, Maven, PyTest, OpenSSL, Embedded / SoC Dev
- *Leadership*: Skills gained as an Air Cadet Warrant Officer and as a Teaching Assistant, mentored students to facilitate learning

Accolades

Eric Sigurdson Award – 2020-22 | Dean's Honor List recipient –2019-22 | J. Lorne Grey Scholarship – 2019

References

Nishanth Gandhi nishanth.gandhi@circlenvi.com – QA Manager at Circle NVI

Susan McMillan susan.mcmillan@hatch.com – Project Manager at Hatch Ltd.