Aksh Ravishankar

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Education

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

- · Major: Computer Systems Engineering with a 4.0 GPA.
- · Related coursework: Machine Learning, Object-Oriented Development, Data Structures and Algorithms, Cybersecurity, Communications Engineering, Project Management, Embedded Development

Experience

Embedded Software Engineer 2 | Ciena | October 2023 – Present

- · Developed, documented, and tested software for **pluggable OSFP** optical transceiver module.
- · Developed and maintained a **remote logging** and log retrieval tool in a **real-time system**.
- · Supported development of **network traffic** provisioning and **error management**.
- · Proposed and created a **hub for sharing information** between different business groups to increase the knowledge base of the entire team.

Software Quality Assurance Analyst | 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.
- · Implemented a Continuous Deployment pipeline to optimize development and testing workflow.
- Worked in AGILE environment using SCRUM methods to meet team and company goals.

Software Engineer | Hotchkiss Brain Institute | April 2022 – July 2022

- · Developed **backend architecture**, standard workflows, and mobile app user interactions/use cases.
- Developed medium-fidelity design for the proposed app using modern wireframing tools.
- · Documented and suggested improvements to existing data storage and controlled access infrastructure.

Teaching Assistant | Carleton University | January 2021 – April 2023

- · Responsible for helping students understand and apply concepts from **Python** and **Java** courses with a focus on **OOP**.
- · Worked with professors and coworkers to **improve course delivery** using student feedback.

Projects

Autonomous Car – Lane Following System

- · Implemented an edge-detection-assisted **deep learning** hybrid model to identify lane boundaries in real time.
- · Used traditional optimization and pre-processing techniques in C++/Python using TensorFlow to reduce complexity and improve performance, allowing analysis of live video on embedded SoC controller.
- · Incorporated and interpreted open-source C++ vision modules into project and created internal documentation for open-source modules.

StaySafe

• Developed a person-tracker device that used **computer-vision** to track people passing through a doorway to keep count of the number present in a closed space; designed to help reduce the spread of COVID-19 in small indoor spaces.

Skills

- · Languages: C, Python, Bash
- Tools: Deep Learning (CNN), Computer Vision, TensorFlow/PyTorch, Git, JIRA, BitBucket, Embedded Software
- · Leadership: Skills gained as an Air Cadet Warrant Officer and as a University Teaching Assistant

Accolades

Eric Sigurdson Award – 2020-23, Dean's Honor List recipient –2019-23, J. Lorne Grey Scholarship – 2019

References

Xue Hao Ying <u>xuying@ciena.com</u> – Senior Manager – Embedded Software Engineering Cristina Ruiz Martin <u>cristinaruizmartin@sce.carleton.ca</u> – Professor at Carleton University