Shehan Suresh

University of Waterloo • 2A Software Engineering

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Technical Skills

Languages	Java, Python, C/C++, SQL, Bash, Scala, JavaScript
Frameworks	TensorFlow, Keras, Spring, OpenCV, Node.js, DC, React, Ionic, Selenium
Tools	Kafka, Docker, Amazon Web Services, Unix, Git

Experience

Capital One • Software Engineering Intern — Jan 2018 – Apr 2018

Java, JavaScript, Python, TensorFlow, Kafka, Amazon Web Services, Docker

- Engineered alerts application to reduce account takeover fraud loss by **$2.5 million** and accelerated the alert delivery time by configuring **multi-threading**
- Increased fraud loss coverage by **18%** by implementing 20 new asynchronous **aggregate features** using **Java Streams** for the transaction fraud detection model
- Strengthened fraud model monitoring by leveraging **self-taught** JavaScript visualization frameworks (D3, DC and crossfilter) to build a **configurable interactive dashboard**
- Built and trained **deep learning model** using **TensorFlow** and **Keras** frameworks in order to identify new features for the fraud detection model

National Instruments • Application Software Developer — May 2017 – Aug 2017

JavaScript, Node.js, Python, Django, Selenium, Jasmine

- Independently established a **WebRTC signaling server** that manages **WebSocket** communication, which opened up new possibilities for streaming data between a web and device peer
- Co-developed a **WebRTC library** that allows users to easily view and retrieve data from external devices
- Created a **Node.js server** that implements the OpenScope API protocol using **REST APIs** in order to better examine the data streaming capabilities of the product

Projects

FINDR – Hack the Valley II — Feb 2018

Python, OpenCV, Raspberry Pi, Firebase

- **Autonomous** robot equipped with a **webcam** and **ultrasonic sensors** that locates people in distress
- Utilized **OpenCV** to detect people and plot their GPS co-ordinates on a map in **real time** using **Firebase**

Aloud — Jan 2018

Ionic, Google Cloud Vision API, Watson Assistant

- Developed an application supported on **Android** and **iOS** that helps children read and learn new words
- Used **Google Cloud Vision** and **Watson Assistant** to read text and have **realistic conversations**

Education

University of Waterloo, Bachelor of Software Engineering (Cumulative GPA: 3.96) — 2016 – 2021

Awards

Hack the Valley – MLH 3rd Place (out of 76 teams) — 2018
Electric City Hacks – Top 5 + Wolfram Alpha Award — 2017
Dean's Honours List – Top 20% (1A to 2A) — 2017
President's Scholarship of Distinction and Nortel Scholarship — 2016