

Shehan Suresh

University of Waterloo • 2A Software Engineering

shehan.suresh@uwaterloo.ca | github.com/shehan29 | shehansuresh.me | linkedin.com/in/shehansuresh | (416) 471-8024

Technical Skills

Languages	Java, Python, C/C++, SQL, Bash, Scala, JavaScript
Frameworks	OpenCV, Node.js, D3, DC, Crossfilter, React, React Native, Ionic, Selenium
Tools	Kafka, Maven, Amazon Web Services, Unix, Git

Experience

Capital One • Software Engineering Intern Jan 2018 – Apr 2018

Java, Kafka, Python, Amazon Web Services, JavaScript

- Configured **multi-threading** in an alerts application to **increase processing speed** of messages by **10**
- Implemented features that compute **complex aggregations** of **Java Streams** containing authorization history in order to pass values to the model which predicts whether the current transaction is fraudulent
- Co-developed a **configurable** model monitoring web page that utilizes **D3**, **DC** and **Crossfilter** to provide data scientists a **visualization** of the performance of each of their features in their model

National Instruments • Application Software Developer May 2017 – Aug 2017

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

- Completed **55** tasks, fixed **44** defects, wrote **41** unit tests and **7** Selenium tests within an **Agile** team
- 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

- Produced an application supported on **Android** and **iOS** that helps children read and learn new words
- Takes advantage of **Google Cloud Vision** in order to read text seen through the phone's camera
- Watson Assistant** is used to allow children to have **realistic conversations** with their reading helper

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%)	2016 – 2017
President's Scholarship of Distinction and Nortel Scholarship	2016