Shehan Suresh

University of Waterloo · 2A Software Engineering

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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

Java, Kafka, Python, Amazon Web Services, JavaScript

Jan 2018 – Apr 2018

- 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

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

May 2017 – Aug 2017

- 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
- Corrected Django migration scripts to restore broken databases within the infrastructure

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