

Shehan Suresh

University of Waterloo • 2A Software Engineering

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Technical Skills

Languages	JavaScript, Python, C/C++, SQL, Bash, Scala, Java, HTML, CSS, PHP
Frameworks	React, Redux, React Native, Django, Node.js, jQuery, Polymer, Selenium, Jasmine
Tools	Unix, Karma, Git, Perforce, SVN, Xcode, Android Studio

Experience

National Instruments • Application Software Developer May 2017 – Aug 2017

JavaScript, jQuery, 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
- Corrected **Django migration scripts** to restore broken databases within the infrastructure

Brainweber • Software Consultant Mar 2017 – Apr 2017

React, Redux

- Independently developed **React** modules from scratch for a web-based auctioning platform
- Asynchronously updated web pages with effective use of **REST APIs** to improve responsiveness
- Updated the status of the bid in real-time using **WebSockets**, so that users experience minimal delay
- Stored data using **Redux**, so that it can be retrieved across the application with ease

Projects

Grades Jul 2017 – Present

React Native

- Produced a grade managing application for students that is supported on **Android** and **iOS**
- Stored data in **AsyncStorage** as a JSON object that is parsed and updated throughout the application
- **Dynamically** updated lists of courses and assignments by mapping objects during state changes

Quizzlet Nov 2016 – Jan 2017

Java, MySQL, Swing, AWT, Access

- Developed a student and teacher friendly application that allows users to make and take quizzes
- Used **Swing** and **AWT libraries** to create the graphical user interface
- Linked **Access database** to dynamically store and manage data from quizzes

Education

University of Waterloo, Bachelor of Software Engineering (Cumulative GPA: 3.95) 2016 – 2021

Sir Wilfrid Laurier CI, OSSD and International Baccalaureate Diploma (Top 10%) 2012 – 2016

Awards

Termly Dean's Honours List (Top 20%) 2016 – Present

President's Scholarship of Distinction and Nortel Scholarship 2016