

Aamir Sheergar

3rd Year Computer Science Student

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Technical Skills

Languages: Java, TypeScript, JavaScript, Python, C++, C, SQL, PHP

Tools / Frameworks: HTML5, CSS, ReactJS, Redux, JSON, NodeJS, Git, GDB, JUnit, Mocha & Chai, JIRA, VMware, MySQL (phpMyAdmin), PyTest, Bash

Internship Work Experience

Core OS Test - Software Testing Student | BlackBerry QNX | Ottawa, Ontario

May 2019 – August 2019

- Improved the efficiency of stress testing via coding automated test scripts (with Python and PyTest) to automate previously manual tests for QNX's virtual machine for safety critical applications (driverless vehicles, medical devices, etc.).
- Completed performance benchmark testing of QNX's virtual machine, improved upon existing documentation, and documented the results with performance comparisons against older builds.
- Contributed to daily stand-up meetings as part of the Agile development process.

Software Integration Student | BlackBerry QNX | Ottawa, Ontario

September 2018 – April 2019

- Successfully resolved hundreds of customer integration and support questions via customer descriptions, troubleshooting, debugging, and problem re-creation regarding the QNX RTOS.
- Provided customers with consultation regarding API usage, software design and best practices for their custom applications (C programming language).
- Utilized a custom QNX IDE (based on Eclipse) for kernel tracing, memory analysis and debugging.

Projects

Personal Website

April 2020 – Present

- Developed a personal portfolio website (currently deployed) using responsive design principles.
- Designed custom website logo.
- Utilized Bootstrap for base styling, base navbar template, and container system.
- Utilized CSS animations.

Technologies & Tools used: HTML5, CSS, Bootstrap

Administration Web Page for a Database

March 2020 – April 2020

- Developed a web interface (with two partners) for managing users/data of a database and displaying data.
- Responsible for the frontend UI, majority of the client-side development (HTML5, CSS, PHP), and website logo design.
- Responsible for SQL query creation to extract data from the database according to user input, and for database normalization (BCNF) to reduce data redundancy.
- Contributed to the database schema design.

Technologies & Tools used: HTML5, CSS, PHP, SQL, MySQL

Campus Explorer Web Application

September 2019 – November 2019

- Developed the backend for a web app (with a partner) in a series of four sprints to query and display university metadata (building/rooms, course data).
- Successfully implemented: a query engine (for data aggregation and retrieval), a JSON dataset validation system, a JSON query validation system (semantic and syntactic checking), webserver and REST endpoints, and basic timetable creation system (course/room scheduling).
- Utilized Test Driven Development (TDD) principles.
- Performed black-box, white-box, integration, and end-to-end tests using Mocha and Chai frameworks.

Technologies & Tools used: TypeScript, NodeJS, HTML, Mocha, Restify, JSON

Bus Transit Android App

July 2017 – August 2017

- Completed the backend implementation of a skeleton mobile Android app.
- Displays the bus stops nearest to the user, while providing a visual illustration of the bus routes and arrival times for a user-selected stop.
- Utilized Object Oriented (OO) and Test Driven Development (TDD) design principles.

Technologies & Tools used: Java, IntelliJ, JUnit testing, JSON

Education

University of British Columbia | Vancouver, BC, Canada
BSc. in Computer Science | Year 3

September 2017 – May 2021 [Expected]

University of British Columbia | Vancouver, BC, Canada
BSc. in Biology | Graduated: May 2017

September 2012 – May 2017

Extracurricular

Lab Volunteer | BC Children's Hospital Research Institute | Vancouver, BC

June 2015 – May 2017

Cancer Research Project | UBC Multidisciplinary Undergraduate Research Conference | Vancouver, BC

April 2015

Volunteer | UBC Hospital | Vancouver, BC

January 2014 – May 2017

Interests

Programming, aerospace, gaming, and stock trading.