Aamir Sheergar

4th Year Computer Science Student
Location: Canada (Citizen) | Languages: English (Native Fluency)
Portfolio Website: **aamirs.me** | GitHub: **github.com/AamirL1011**

Education

University of British Columbia
BSc. in Computer Science
Expected Graduation: May 2022

University of British Columbia
BSc. in Biology
Graduated: May 2017

Awards: Dean's Honor List (2015), Chancellor's Scholar Award

Technical Skills

Proficient with:
JavaScript, TypeScript, Python, Java, C, SQL

Prior Experience with:
C++, PHP, x86 Assembly

Web Development: HTML5, CSS3, Bootstrap, ReactJS, Redux, NodeJS, Express, JSON
Database: MongoDB (NoSQL), MySQL (phpMyAdmin), GraphQL, REST
Cloud: AWS, Cloudflare, Heroku
Testing: PyTest, JUnit, Mocha, Chai, GDB
Version Control: Git
Other: VMware, JIRA, Agile

Extracurricular

BC Children's Hospital Research Institute
Lab Volunteer
June 2015 – May 2017

UBC Multidisciplinary Undergraduate Research Conference
Cancer Research Project
April 2015

UBC Hospital
Volunteer
January 2014 – May 2017

Interests

Programming, aerospace, gaming, and stock trading.

Internship Work Experience

UBC Cloud Innovation Centre
Software Developer Intern
September 2020 – December 2020 [Full Time], January 2021 – Present [Part Time]

- Collaborated remotely in a dynamic cross-organizational team including members from both Amazon Web Services (AWS) and UBC, along with key stakeholders to design and develop novel software solutions for the public sector.
- Developed a prototype antimicrobial clinical decision support application (ReactJS) utilizing the SMART on FHIR standard (FHIR version: R4) in partnership with local physicians. The application uses an AWS ML model and third-party medical data APIs to classify and filter relevant data from a patient's electronic health record.
- Developed both frontend and backend components for an IoT real-time health monitoring platform including: a data schema (leveraging GraphQL and AWS services), a frontend dashboard (ReactJS), and backend real-time data processing (serverless).

BlackBerry QNX
Software Testing Student (Core OS Test Team)
May 2019 – August 2019

- Implemented automated test scripts (with Python and PyTest) for stress testing QNX's virtual machine for safety critical applications (autonomous vehicles, medical devices).
- Completed performance benchmark testing of QNX's virtual machine and documented the results with performance comparisons against older builds.
- Contributed to daily stand-up meetings as part of the Agile development process.

BlackBerry QNX
Software Integration Student
September 2018 – April 2019

- Successfully resolved hundreds of customer integration and support questions via customer descriptions, troubleshooting, debugging, kernel tracing, memory analysis, and problem re-creation regarding the QNX Real Time Operating System.

Technical Projects

DoGether
(dogetherapp.herokuapp.com/)
May 2020 – August 2020

- Collaborated remotely in a team of four to develop a full-stack NodeJS based task management web application with social aspects to help motivate users.
- Implemented front-end ReactJS components for a twitter-like feed, a store to redeem points, social interaction features, and user profile page components.
- Created RESTful API routes in an Express back-end that queries or updates user data in a MongoDB Atlas cloud database.
- Integrated cloud-based AWS S3 data uploading and CloudFront CDN static asset delivery for increased scalability and performance.
- Designed custom logo and login page animation.
- Utilized Redux for state handling.

Technologies & Tools: JavaScript, HTML5, CSS3, Bootstrap, MaterialUI, ReactJS, Redux, Express, MongoDB, NodeJS, AWS (S3, CloudFront)

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, and a JSON query validation system (semantic and syntactic checking).
- Incorporated Object Oriented (OO) and Test Driven Development (TDD) principles into the design process.
- Performed unit testing (white-box), integration (black-box), and end-to-end tests using Mocha and Chai frameworks.

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