Aamir Sheergar

4th Year Computer Science Student

Location: Canada (Citizen) | Languages: English (Native Fluency)
Portfolio Website: **aamirs.me** | GitHub: **github.com/AamirL1011** | LinkedIn: **https://www.linkedin.com/in/aamir-s/**

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, Java, C, Python, SQL

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

Certifications:
Microsoft Azure Fundamentals

Web Development: HTML5, CSS3, ReactJS, Redux, NodeJS, Express, WebRTC, Socket.IO, GraphQL, REST
Database: MongoDB (NoSQL), MySQL (phpMyAdmin)
Cloud: AWS, Azure, GCP
Machine Learning: scikit-learn
Testing: PyTest, JUnit, Mocha
Version Control: Git
Other: Docker, Jupyter, JIRA, Agile

Extracurricular

BC Children's Hospital Research Institute
Lab Assistant
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 automobiles.

Work Experience

UBC-AWS Cloud Innovation Centre (CIC)

Software Developer Intern
September 2020 – December 2020 [Full Time], January 2021 – August 2021 [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.
- Owned, architected, and developed a prototype antimicrobial clinical decision support application (ReactJS) utilizing the SMART on FHIR data 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).
- Designed and developed a custom responsive login page template (React, Redux, Semantic UI) for the CIC that was integrated on most frontend projects. Authentication services were provided by the integration of Amazon Cognito APIs.

BlackBerry QNX

Software Testing Student
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

WeChatter Video Chat App

GitHub | Demo
January 2022 – Present

- Created a real-time video chat app that utilizes WebRTC for peer-to-peer video camera streaming, and WebSockets to establish bi-directional communication.
- Deployed with Google Cloud Platform (Cloud Run) and Docker containerization.

DoGether

GitHub | Demo
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 backend that queries or updates user data in a MongoDB Atlas cloud database.
- Significantly increased scalability and performance by integrating cloud-based AWS S3 data uploading and CloudFront CDN static asset delivery.

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.