Ahmad Masud

+1 (604)-441-7868 | ahmadmasud25@hotmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

Simon Fraser University — Expected Graduation: Dec 2027
Bachelor of Science in Computer Science — *Burnaby, BC*

- Dean's Honor Roll (top 10% in faculty)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Computer Systems, Database Systems

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (SQLite, MySQL, Postgres), JavaScript, HTML/CSS, MATLAB, Markdown
Frameworks: React.js, Node.js, JUnit, Firebase, Gatsby.js, Spring Boot(RESTful API)
Libraries: numpy, pandas, matplotlib, scikit-learn, Axios, jsPlumb
DevOps: Git, GitHub, Docker, CI/CD, Agile, Github Actions, Google Analytics

WORK EXPERIENCE

Kumon — May 2023 – Dec 2023
Teaching Assistant — *Burnaby, BC*

- Tutored students in Calculus, Algebra, Trigonometry, Reading, Writing, and Poetry through personalized instruction
- Graded **500+ student assignments** and provided feedback for improvements, optimizing student productivity

Pocket Pinata Interactive — Feb 2021 – Mar 2021
QA Tester – Game Optimizations Team — *Remote (Burnaby, BC)*

- Performed functionality tests on *Draw a Stickman*, a game **played 100M+ times** and winner of **5 Webby Awards**
- Accelerated product iterations by finding **30%** of all bugs, directly influencing the launch timeline of 3 major games
- Created written and recorded testing reports, suggesting improvements for possible issues in software/gameplay

TECHNICAL PROJECTS

TempTalk | *JavaScript, React, Firebase, Node.js* | Site | GitHub — Mar 2024

- Developed a web-based chat app using React and Firebase that lets users create disposable chat rooms instantly
- Simplified access by removing authentication, enabling thousands to engage in immediate, private conversations

Database Schema Constructor | *JavaScript, React, Firebase, Node.js, jsPlumb* | Site | GitHub — Feb 2024

- Constructed a web tool for designing databases and exporting them as SQL queries without having to write code
- Used Firebase user authentication and Firestore to allow cloud-saving of up to **20,000 user databases** per day

Quant Market Predictor | *Python, numpy, pandas, matplotlib, scikit-learn* | GitHub — Jan 2024

- Created a model using sklearn's Linear Regression library, analyzing historical stock data to predict future prices
- Added the ability to get the volatility of stock by calculating the standard deviation of its market price fluctuations
- Leveraged Python's unit testing library and GitHub workflows to ensure production-ready code for a **0%** error rate

Sorting Visualizer | *Java, JUnit, Swing, Maven* | GitHub — Jan 2023

- Designed a desktop application with the Java Swing library to visualize the routines of **5 sorting algorithms**
- Implemented bubble sort, selection sort, insertion sort, merge sort, and quick sort using object-oriented design
- Programmed **7 comprehensive unit tests** for each sorting algorithm with JUnit to ensure proper functionality

EXTRACURRICULAR EXPERIENCE

SFU Open Source Development — Jan 2024 – Present
Software Developer — *Burnaby, BC*

- Developed a NBA Statistics Tracker web app using React as the front end and *BALLDONTLIE* for data
- Worked as a team, adopting Agile methodologies to ensure timely delivery of **3 major updates**
- Utilized GitHub for version control, and collaboration through **60+** code reviews and merges

SFU Hiking Club — Jan 2024 – Apr 2024
Software Developer Consultant — *Burnaby, BC*

- Developed a full-stack website in Spring Boot using the MVC architecture to improve compilation time by **50%**
- Implemented REST Controllers to handle CRUD operations, simplifying database management in PostgreSQL