Ahmad Masud

Burnaby, British Columbia

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EDUCATION

Simon Fraser University — Expected Graduation: Dec 2027
Bachelor of Science in Computer Science — *Burnaby, BC*
- Cumulative GPA: 3.2, Dean's Honor Roll (top 5% in faculty)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Computer Systems, Database Systems, Discrete Mathematics, Differential/Integral Calculus, Linear Algebra, Probability and Statistics

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), Django
Libraries: numpy, pandas, matplotlib, scikit-learn, Axios, jsPlumb
DevOps: Git, GitHub, Docker, CI/CD, Github Actions, Google Analytics

WORK EXPERIENCE

Kumon — May 2023 – Dec 2023
Teaching Assistant — *Burnaby, BC*
- Guided students in learning Calculus, Algebra, Trigonometry, Reading, Writing, and Poetry
- 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*
- Enhanced **Draw a Stickman** with a team behind a game played 100M+ times and winner of 5 Webby Awards
- Accelerated product iterations by reducing 30% of bugs, directly influencing the launch timeline of 3 major games
- Created written and recorded testing reports, suggesting improvements for possible issues in software/gameplay

PROJECTS (view more at [ahmadmasud.com](#))

Database Schema Constructor | *Javascript, React, Firebase, Node.js, jsPlumb* — Mar 2024
- Developed 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 20,000 user databases per day

Quant Market Predictor | *Python, numpy, pandas, matplotlib, scikit-learn* — Feb 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

RateRover | *JavaScript, React, Axios, openexchangerates* — Jun 2023
- Built a React application that makes external api calls using axios to allow users to convert between currencies
- Optimized cache usage and minimized server requests to obtain a lighthouse performance score of 99

Sorting Visualizer | *Java, JUnit, Swing, Maven* — 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

SFU Open Source Development — Jan 2024 – Present
Software Developer — *Burnaby, BC*
- Developed a NBA Statistics Tracker web app using React as the frontend and Django as the backend
- 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

VikingsDev — Sep 2021 – June 2022
Teaching Assistant — *Burnaby, BC*
- Mentored 20+ high school students in Python programming and guided them to create their first personal projects
- Led 10 interactive workshops, simplifying coding concepts in Python, resulting in increased student engagement