Ahmad Masud

Burnaby, British Columbia

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EDUCATION

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

- Deans Honor Roll
- Computer Science: Data Structures and Algorithms, Software Engineering, Computer Systems, Database Systems
- Mathematics: 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, Django
Developer Tools: Git, GitHub, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Excel
Libraries: numpy, pandas, matplotlib, skicit-learn

PROJECTS

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 users save their databases in the cloud for ease of access

Quant Market Predictor | *Python, numpy, pandas, matplotlib, skicit-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

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 Testing, Swing, Maven*   Jan 2023
- Designed a desktop application with the Java Swing library to visualize the different routines of sorting algorithms
- Implemented bubble sort, selection sort, insertion sort, merge sort, and quick sort using object-oriented design
- Programmed unit tests for each sorting algorithm with JUnit to ensure proper functionality

VOLUNTEERING / EXTRACURRICULAR

Software Developer   Jan 2024 – Present
SFU Open Source Development   *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 enhance productivity and ensure timely delivery
- Utilized GitHub for version control, and collaboration through code reviews and merges to ensure timely updates

Game Tester   Feb 2021 – Mar 2021
Pocket Pinata Interactive   *Remote*
- Collaborated as a team to find in-game bugs efficiently resulting shorter game launch timelines
- Utilized Slack to communicate with team members, resulting in effective project coordination

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

WORK EXPERIENCE

Teaching Assistant   May 2023 – Dec 2023
Kumon   *Burnaby, BC*
- Guided students in learning Calculus, Algebra, Trigonometry, Reading, Writing, and Poetry
- Graded student work and provided input for improvements, increasing student productivity and learning