Ahmad Masud

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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 10% 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*
- 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*
- Performed functionality tests on Draw a Stickman, 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

Database Schema Constructor | *Javascript, React, Firebase, Node.js, jsPlumb* | Site | GitHub   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 up to **20,000 user databases** per day

Quant Market Predictor | *Python, numpy, pandas, matplotlib, scikit-learn* | GitHub   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* | Site | GitHub   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* | 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

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 and guided them to create their first personal projects
- Led **10 interactive workshops**, simplifying coding concepts in Python, resulting in increased student engagement