Ahmad Masud

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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, Algorithms, Software Engineering, Computer/Operating/Database Systems

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C/C++, SQL, HTML/CSS, MATLAB, Markdown
Frameworks: React.js, Node.js, Express.js, JUnit, Firebase, Gatsby.js, Spring Boot
Libraries: MongoDB, numpy, pandas, matplotlib, scikit-learn, Axios
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

Remindable | *JavaScript, React, Express.js, Node.js, MongoDB* | GitHub May 2024
- Developed a scalable Express server for REST API calls, leveraging Mongoose to handle **10K+ data entries**
- Simplified state management using React Context, and secured user sessions with JWT authentication

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 speed up project timeline by **1 week**
- Implemented REST Controllers to handle CRUD operations, simplifying database management in PostgreSQL