# Ahmad Masud

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## EDUCATION

**Simon Fraser University** — Expected Graduation: Dec 2026
*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/C++, SQL, HTML/CSS, GraphQL
**Frameworks**: React.js, Node.js, Express.js, JUnit, Firebase, Spring Boot, Mongoose
**DevOps**: Git/GitHub, Docker, CI/CD, Agile, Google Analytics

## WORK EXPERIENCE

**Kumon** — May 2023 – Dec 2023
*Teaching Assistant* — *Burnaby, BC*
- Tutored students in Calculus, Algebra, Trigonometry, Reading, Writing
- Graded **500+ student assignments** and provided feedback for improvements, optimizing student productivity

**Pocket Pinata Interactive** — Feb 2021 – Mar 2021
*Game Tester* — *Remote*
- 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

**Linux Shell** | *C, Linux, Shell* | ⓞ GitHub — Jun 2024
- Developed a Linux shell with **5+ internal commands**, background processing, and directory navigation
- Utilized Linux system calls: fork() and execvp(), to implement command execution and signal handling

**Remindable** | *JavaScript, React, Express.js, Node.js, MongoDB* | ⓞ GitHub — May 2024
- Developed a Express server with **10 API endpoints**, and leveraged Mongoose to handle data entries
- Created **20+ React Components**, and secured user sessions with JWT authentication

**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 achieve **80% code coverage**

**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 unit tests** for each sorting algorithm with JUnit to ensure proper functionality

## COMMUNITY INVOLVEMENT

**SFU Open Source Development Club** — Jan 2024 – Present
*Software Developer* — *Burnaby, BC*
- Integrated a web API into React using Axios, displaying detailed stats for **over 400 NBA players**
- Worked as a team, adopting Agile methodologies to ensure timely delivery of **3 major updates**
- Implemented automated testing and **CI/CD pipelines** using GitHub workflows to ensure production-ready code

**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 maintainability
- Implemented REST Controllers to handle CRUD operations, simplifying database management in PostgreSQL