

# 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, 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*

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