

# Ahmad Masud

☎ [+1 \(604\)-441-7868](tel:+16044417868) | ✉ [ahmadmasud25@hotmail.com](mailto:ahmadmasud25@hotmail.com) | [in LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## 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, Bitbucket, Docker, CI/CD, Jenkins, Agile, Google Analytics

## WORK EXPERIENCE

### Hitachi

Sep 2024 – Present

*Software Engineer Intern*

*Burnaby, BC*

- Currently completing a 32-week internship, working on Automatic Train Supervision (ATS) control systems

### 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

## TECHNICAL PROJECTS

### Linux Memory Allocator | *Linux, C++, Posix, Pthread* | [GitHub](#)

Jul 2024

- Designed a multithreaded memory allocator with advanced allocation strategies, and memory management techniques
- Utilized Linux syscalls and Posix Threads to achieve a **10% increase** in CPU and memory utilization

### Remindable | *JavaScript, React, Express.js, Node.js, MongoDB* | [GitHub](#) | [Site](#)

May 2024

- Developed a Express server with **10 API endpoints**, and leveraged Mongoose to handle data entries
- Created **9+ custom React Hooks**, 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 – Aug 2024

*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