

# AHMAD MASUD

Burnaby British Columbia, Canada

☎ (604)-441-7868 | ✉ [ahmadmasud25@hotmail.com](mailto:ahmadmasud25@hotmail.com) | [in ahmadmasud](https://www.linkedin.com/in/ahmadmasud) | [ahmad-masud](https://github.com/ahmad-masud) | [ahmadmasud.com](https://ahmadmasud.com)

## EDUCATION

### Simon Fraser University

Expected Graduation: December 2027

Bachelor of Science in Computer Science (Co-op)

Cumulative GPA: 3.20/4.00

- Dean's Honor Roll
- **Computer Science:** Data Structures and Algorithms, Software Engineering, Computer Systems, Database Systems
- **Mathematics:** Discrete Mathematics, Differential/Integral Calculus, Linear Algebra, Probability and Statistics

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, SQL, HTML/CSS, JavaScript, Typescript, MATLAB, RISC-V, Markdown

**Tools/Libraries/Frameworks:** Git, React, Spring Boot, Node.js, pandas, NumPy, JUnit Testing, Agile, Gatsby.js, Django

**Applications:** NetBeans, VS Code, Excel, Adobe Photoshop, Blender, IntelliJ IDEA, Slack

## TECHNICAL PROJECTS (view more at [ahmadmasud.com](https://ahmadmasud.com))

### Database Schema Constructor | *JavaScript, React, jsPlumb, SQL*

Mar 2024

- A front-end React application that allows users to create complex database schemas in SQL and export their queries
- Used state management to efficiently re-render tables, resulting snappy UI responsiveness

### Quant Market Predictor | *Python, numpy, pandas, matplotlib, skicit-learn*

Feb 2024

- Analyzes a Linear Regression model to predict future stock prices using historical market data from yfinance
- Estimates 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

### RateRover | *JavaScript, React, Axios, openexchangerates*

Jun 2023

- A React application that makes an external api call using axios to allow users to convert between global currencies
- Optimized cache usage and minimized server requests to obtain a lighthouse performance score of 99

### Sorting Visualizer | *Java, JUnit Testing, Swing, Maven*

Jan 2023

- A Java application that uses a frame and bars to visualize the different routines of popular sorting algorithms
- Implemented bubble sort, selection sort, insertion sort, merge sort, and quick sort using object-oriented design

## EXTRACURRICULAR/VOLUNTEERING EXPERIENCE

### SFU OSS Development Club

Dec 2023 - Present

Software Developer

Burnaby BC, Canada

- Developed the backend of an NBA Statistics application using Django resulting in a 30% increase in performance and enhanced real-time reporting capabilities for NBA statistics and player performance metrics.

### Pocket Pinata Interactive

Feb 2021 - Mar 2021

Game Tester

Remote

- Collaborated as a team to find in-game bugs efficiently resulting shorter game launch timelines
- Utilized Slack to communicate with team members, resulting in effective project coordination

### VikingsDev

Sep 2021 - June 2022

Teaching Assistant

Burnaby BC, Canada

- Teaching assistant for a high school club aimed at teaching beginners how to program in Python
- Taught syntax of Python and useful programming concepts resulting in an increased interest in coding

## WORK EXPERIENCE

### Kumon

May 2023 - Present

Teaching Assistant

Burnaby BC, Canada

- Guided students in learning Calculus, Algebra, Trigonometry, Reading, Writing, and Poetry
- Graded student work and provided input for improvements, increasing student productivity and learning