

# Ahmad Masud

Burnaby, British Columbia

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## EDUCATION

### Simon Fraser University

Burnaby, BC

*Bachelor of Science in Computer Science*

*Expected Graduation: Dec 2027*

- Cumulative GPA: 3.2, Dean's Honor Roll (top 5% in faculty)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Computer Systems, Database Systems, Discrete Mathematics, Differential/Integral Calculus, Linear Algebra, Probability and Statistics

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (SQLite, MySQL, Postgres), JavaScript, HTML/CSS, MATLAB, Markdown

**Frameworks:** React.js, Node.js, JUnit, Firebase, Gatsby.js, Spring Boot, Django

**Developer Tools:** Git, GitHub, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Excel

**Libraries:** numpy, pandas, matplotlib, scikit-learn

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

### Database Schema Constructor | Javascript, React, Firebase, Node.js, jsPlumb

Mar 2024

- Developed 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 users save their databases in the cloud for ease of access

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

Feb 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

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

Jun 2023

- Built a React application that makes external api calls using axios to allow users to convert between 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

- Designed a desktop application with the Java Swing library to visualize the different routines of sorting algorithms
- Implemented bubble sort, selection sort, insertion sort, merge sort, and quick sort using object-oriented design
- Programmed unit tests for each sorting algorithm with JUnit to ensure proper functionality

## VOLUNTEERING / EXTRACURRICULAR

### Software Developer

Jan 2024 – Present

*SFU Open Source Development*

*Burnaby, BC*

- Developed a NBA Statistics Tracker web app using React as the frontend and Django as the backend
- Worked as a team, adopting Agile methodologies to enhance productivity and ensure timely delivery
- Utilized GitHub for version control, and collaboration through code reviews and merges to ensure timely updates

### Game Tester

Feb 2021 – Mar 2021

*Pocket Pinata Interactive*

*Remote*

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

### Teaching Assistant

Sep 2021 – June 2022

*VikingsDev*

*Burnaby, BC*

- Mentored high school students in Python programming and guided them to create their first personal projects
- Led interactive workshops, simplifying coding concepts in Python, resulting in increased student engagement

## WORK EXPERIENCE

### Teaching Assistant

May 2023 – Dec 2023

*Kumon*

*Burnaby, BC*

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