

# 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 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(RESTful API), Django

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

**DevOps:** Git, GitHub, Docker, CI/CD, Github Actions, Google Analytics

## WORK EXPERIENCE

### Kumon

May 2023 – Dec 2023

*Teaching Assistant*

*Burnaby, BC*

- Tutored students in Calculus, Algebra, Trigonometry, Reading, Writing, and Poetry through personalized instruction
- Graded **500+ student assignments** and provided feedback for improvements, optimizing student productivity

### Pocket Pinata Interactive

Feb 2021 – Mar 2021

*QA Tester – Game Optimizations Team*

*Remote (Burnaby, BC)*

- Performed functionality tests on *Draw a Stickman*, a game **played 100M+ times** and winner of **5 Webby Awards**
- Accelerated product iterations by reducing **30%** of bugs, directly influencing the launch timeline of 3 major games
- Created written and recorded testing reports, suggesting improvements for possible issues in software/gameplay

## PROJECTS

### TempTalk | *JavaScript, React, Firebase, Node.js* | [Site](#) | [GitHub](#)

Mar 2024

- Developed a web-based chat app using React and Firebase that lets users create disposable chat rooms instantly
- Simplified access by removing authentication, enabling thousands to engage in immediate, private conversations

### Database Schema Constructor | *JavaScript, React, Firebase, Node.js, jsPlumb* | [Site](#) | [GitHub](#)

Feb 2024

- Constructed 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 cloud-saving of up to **20,000 user databases** per day

### 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 ensure production-ready code for a **0%** error rate

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

## EXTRACURRICULAR

### SFU Open Source Development

Jan 2024 – Present

*Software Developer*

*Burnaby, BC*

- Developed a NBA Statistics Tracker web app using React as the front end and Django as the back end
- 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

### VikingsDev

Sep 2021 – Jun 2022

*Teaching Assistant*

*Burnaby, BC*

- Mentored **20+ high school students** in Python and guided them to create their first personal projects
- Led **10 interactive workshops**, simplifying coding concepts in Python, resulting in increased student engagement