

# Mustafa Timbawala

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## EDUCATION

### University of Toronto

Toronto, ON

*Honours Bachelor of Science in Computer Science and Statistics Focus in Software Engineering*

- Relevant Coursework: **Databases, Web Development, Software Engineering, Data Structures and Algorithms, Human-Computer Interaction, Algorithm Design and Analysis**

## EXPERIENCE

### Web Developer

Toronto, Canada

*African Student Association*

*Oct. 2024 – Present*

- Collaborated with a cross-functional team to design and develop front-end UI/UX components for a website using a user-centered design approach, focusing on creating a visually appealing and functional interface. Emphasized accessibility and aesthetic consistency to enhance user engagement and satisfaction.

## PROJECTS

### Quotis | *React Native, TypeScript, AWS SDK, MongoDB, System Design, GitHub*

- Worked in a team of 5 in developing a mobile platform similar to **TaskRabbit and Instagram** for service requests, facilitating job postings with multimedia and enabling transparent selection between users and providers based on reviews and preferences.
- Integrated **AWS S3** for secure multimedia file storage and **MongoDB** for robust data management, using **React Native** and **TypeScript** for a responsive cross-platform interface.

### SharesSpace | *Python, Flask, Mongooose, PostgreSQL, GitHub*

- Developed a database-backed social network application using **Python Flask** for the Web Server, with **HTML** and **CSS** for the front-end.
- Utilized **PostgreSQL** for robust database management, handling complex queries and calculations for portfolio statistics, including Beta, covariance, and correlation matrices.
- Deployed the application on **Google Cloud virtual machines**, ensuring scalability and high availability.
- Integrated social networking features, allowing users to manage friends, share stock lists, and write reviews, enhancing user interaction and collaboration

### CMS HUB | *Java, Android Studio, Firebase, Junits, GitHub, Jira*

- Collaborated with a team to develop an Android application using **Android Studio** and **Java**, tailored specifically to address the operational needs of the University of Toronto's CMS department.
- Employed **Firebase** for back-end scalability, flexibility, and rapid deployment, ensuring seamless user experience across the app.
- Ensured code reliability and functionality by conducting rigorous unit testing with **JUnit**, verifying core Java functionalities.
- Managed project workflow and version control through **Jira** for tracking team tasks and deadlines, and **Github** for efficient code versioning, facilitating effective teamwork and timely project completion.

### Carun | *Figma, UI/UX*

- Collaborated with a team of students to develop a medium-fidelity prototype of the Carun app using **Figma**, following a user-centered design approach.
- Followed the 8 Golden Rules of Interface Design, with a focus on key principles most critical to **UI/UX** development: consistency, universal usability, informative feedback, and error prevention.
- Employed a user-centered iterative model, continuously refining and improving Carun based on evaluations to enhance the usability of the interface.

## SKILLS SUMMARY

**Languages:** Python, HTML/CSS, JavaScript, TypeScript, C, C++, Java, Kotlin, Assembly, Bash, SQL

**Frameworks:** ReactJS, NextJS, Node, Flask, Django, Express, Bootstrap, Expo, Mongooose, JUnit, FastAPI

**Databases:** SQLite, SQLAlchemy, Firebase, MongoDB, SQLite, AWS, Neo4j, PostgreSQL

**Tools:** GIT, PyCharm, Jupyter, Android Studio, Eclipse, Figma, Agile, GitHub, Google Cloud Platform, Postman, Wireshark, Jira, Docker