AMMAR TARIQ

Toronto, Ontario

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EDUCATION

University of Toronto   Toronto, Ontario
HBSC. Computer Science Co-op - Software Engineering Stream   2019 – Expected 2023

Relevant Courses: Software Engineering, Software Design, Databases, Data Structures/Algorithms, Systems Programming
Awards: University of Toronto Scholar Award - $10,500, Dean's List 2019-2020

SKILLS

Languages & Frameworks   Java, Python, C, React, Angular, JavaScript, TypeScript, Spring Boot, Dart, HTML/CSS
Tools & Technologies   Flutter, MongoDB, GraphQL, MySQL, SQLite, AWS, Git, Jenkins, Jira

EXPERIENCE

Ontario Institute of Studies and Education   Toronto, Ontario
Full Stack Developer   May 2021 – Present

- Developing SCORE, an interactive e-learning platform supporting scripting and orchestration of complex collaborative learning experiences using **Angular**, **Java**, **Spring Boot**, and **MySQL**.

Kontrol Technologies   Toronto, Ontario
Software Developer   Jan 2021 – April 2021

- Developed BioCloud, an **embedded device** built to detect airborne viruses including COVID-19, using **Java**, **React**, **SQLite**.
- Implemented major features and critical hotfixes which saved device resources by **20%** per detection cycle.
- Migrated JavaFX frontend to **React** by creating a Javalin **REST API** which led to a more user-friendly application.
- Integrated **AWS** CloudWatch to track system analytics, expediting the debugging process for **20+ engineers** in the field.
- Automated software versioning in **Jenkins** to effectively monitor changes and facilitate future debugging.

PROJECTS

ARTSIDEOUT App ⌂
Flutter, Dart, GraphQL

- Developed an **iOS**, **Android**, and **Web** app for **14,000+ students** attending UTSC's annual art festival, using **Flutter/Dart**.
- Integrated YouTube API to display videos and livestreams between artists, event organizers, and event attendees.
- Used **GraphQL** to reduce the number of API round trips when querying artists' profile information and art installations.
- Improved user experience between mobile and web by simplifying implementation into reusable styled components.

Sidecooks ⌂
React, Express, Node, MongoDB

- Developing a platform allowing chefs to advertise and sell their home-made foods using the **MERN** stack.
- Utilized JWT for user authentication, **Cloudinary API** for media storage, and Redux for state management.
- Created a simple REST API that allows users to insert, modify, and delete their items from the MongoDB database.

African Impact Project
AWS S3, MongoDB, React, Express, Node, Jira

- Developing a community driven e-learning web application for aspiring African entrepreneurs with a team of 6.
- Features include video conferencing, online evaluations, direct messaging, and startup marketing.

Mock Bash Shell
Java, Agile

- Designed and developed a mock unix shell which allows users to execute several bash commands in a **Java** terminal.
- Worked in a team of 4, following **agile-scrum** methodologies to effectively communicate system design.