

AMMAR TARIQ

Toronto, Ontario

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EDUCATION

University of Toronto

Toronto, Ontario

HBSC. COMPUTER SCIENCE CO-OP SOFTWARE ENGINEERING STREAM

Sept 2019 – Exp. 2023

Relevant Courses: Data Structures & Algorithms, Software Design, Systems Programming, Computer Organization

Awards: University of Toronto Scholar Award - \$10,500, Dean's List 2019

SKILLS

Languages & Frameworks Java, C, Javascript, Flutter, Dart, ReactJS, React Native, HTML/CSS

Tools & Technologies Firebase, GraphQL, SQLite, AWS, Git, Jenkins, Asana, Postman

EXPERIENCE

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**.
- Modified sensor software, created new system routines, and updated system components to work with newer firmware, which all lead to increased detection accuracy and saved resources during detection cycles.
- Automated software versioning in **Jenkins** to effectively track changes and facilitate future debugging.
- Migrated JavaFX UI to React by creating a **REST API** which led to a more user-friendly and maintainable application.
- Integrated **AWS** CloudWatch to monitor system analytics, expediting the debugging process for engineers in the field.

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, React Router for swift navigation, and Redux for state management.
- Created a simple REST API that allows users to insert, modify, and delete their items from the MongoDB database.

Mock Bash Shell

Java

- 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 design choices and implementation requirements.