




# Ryun Kim

3A Mechatronics Engineering | University of Waterloo

 [ryunkim00.github.io/portfolio](https://github.com/ryunkim00)

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**Languages:** JavaScript, TypeScript, Python, Java, C++, C, MATLAB

**Tools:** React, React Native, Expo, Node.js, Express, MongoDB, Azure, Git, Postman, Bootstrap, Jira

## WORK EXPERIENCE

**Full Stack Web and Mobile Developer** | Audioworks Technologies

Jan 2021 – Present

**React, React Native, Expo, Node.js, Express, Azure Cosmos DB, Socket.IO, Postman, Docker, Kubernetes**

- Developed a cross-platform music app from the ground up focusing on social features including instant messaging, comment threads, and push notifications in a small, agile start-up team
- Developed REST APIs for various resources and implemented Redis caching to improve efficiency by 82.9%
- Proposed and developed robust Reddit-style comment threads and server-side push notification handling throughout the app to increase user engagement and retention
- Transformed Figma designs into responsive UI for the mobile app and staging site deployed on an Nginx server

**Software Engineer** | Mensante Corporation – FeelingBetterNow

Mar – Apr 2021

**React, React Native, Expo, Firebase, Chart.js, i18next**

- Developed features for a cross-platform app that strives to make mental health services, including assessments, diagnoses, prescriptions, and counselling, more accessible to the working public
- Implemented deep linking and push notifications to increase the number of mobile app downloads, user engagement, and relevant content delivery
- Integrated JS library and framework to provide users with a graphical widget for showing disorders and scores from past assessments, as well as support for multiple languages to reach a larger audience

**Full Stack Developer** | SS&C Technologies

May – Aug 2020

**Java, GitLab, SonarQube, Cucumber, Gherkin, Eclipse**

- Addressed the need for continuous inspection of code quality by researching and integrating a code analysis platform into the build of a brokerage management software resulting in a 70.4% reduction of defects and vulnerabilities

**Software Engineer in Test** | Maplesoft

Sep – Dec 2019

**TypeScript, Jest, Puppeteer, Perforce VCS**

- Developed comprehensive unit and visual integration tests to debug custom web components used in the company's modelling and simulation software

## PROJECTS

**Masked Captions** | Hack the North 2020++

Jan 2021

- Prototyped a mobile app with real-time speech-to-text display and translation capabilities on a 3-D printed phone mount for communicating in-person more easily and safely during the COVID-19 pandemic (Google Cloud APIs, Unity)

**Anti-Bumper Car** | Hack the 6ix (2<sup>nd</sup> place winner out of 400+ hackers)

Aug 2020

- Developed an iOS app to detect environment and actors around a self-driving prototype and send appropriate driving commands to avoid collision (Swift, Apple's ARKit, Autocode, Xcode)

**Auto-Meeting Minutes** | Hack the North 2019

Sep 2019

- Developed a smart, real-time meeting-minutes-taker that produces a formatted and summarized meeting dialogue (Google Home Mini, Voiceflow, Python, Firebase, React)

## EDUCATION

**Candidate for Bachelor of Applied Science**

Mechatronics Engineering, University of Waterloo, 2023

- **Relevant coursework:** Computer Structures & Real-Time Systems, Data Structures & Algorithms
- **Honours:** Term Dean's Honours List (1A, 1B, 2B)

## INTERESTS

- A cappella singer and executive in The Water Boys and The Unaccompanied Minors (5 terms total)
- Musical theatre performance (4 years)
- Piano and acoustic guitar (10 years)
- Major League Hacking (5 hackathons attended)