

# Eric Kiefer

Software Engineering Student

## Personal Information

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## Skills

Frontend

HTML, CSS, Bootstrap, JS, TS, React, Redux, React Native, Expo, Angular, Electron, UI/UX Design

Backend

Node.js, Django, Express, Passport, JWT, Socket.io, Net sockets, AWS

Database

MongoDB, MySQL, SQLite

Testing

Mocha and Chai, Mockgoose, Jest, JUnit

Hardware

ESP32, ARMv7 DE1-SoC, Arduino

Other

Linux, C, C#, C++, Java, Python, Unity, Git, GitHub, GitLab, Jira, Agile, Scrum, Documentation

Passionate student with software engineering experience in academic and personal projects. Seeking to apply acquired skills in a web or mobile application development position.

## Projects

AquaMonitor

React Native, Expo, Node.js, MongoDB

Hybrid Mobile Development, 2020

- Created a hybrid mobile application with the Expo framework for React Native that alerts users of unsafe water quality parameters
- Developed features such as live monitoring, push notifications, analytics, parameters settings, hardware connection, dark mode, and language selection
- Configured water quality sensors to an ESP32 and streamed data to a remote server with Arduino C++
- Wrote unit tests for REST endpoints using Mocha and Chai with an in-memory database mock of MongoDB (Mockgoose)

Change4Better

Java, SQLite

Native Android Mobile Development, 2020

- Worked in a group of six students to create a native Android application that helps users break their food ordering delivery habits
- Followed the Agile Scrum framework on Jira closely in order to effectively release three versions during the semester
- Presented the packaged product after each sprint - improvising during Covid-19 by creating a final demonstration video on YouTube with OBS Studio

kBeats

Angular, Node.js, MongoDB

Full Stack Web Development, 2019

- Created a site where users can submit reviews to uploaded music and search for songs based on ID3v1 attributes
- Designed a RESTful API in Node.js that included third-party authentication with Facebook and email verification
- Provided application security and different authorization levels for administrative features using JWT middleware
- Deployed the live site using an AWS EC2 instance

## Experience

Bit by Bit

Computer Science Camp at Western University  
London, Ontario

Head Counselor, 2019

- Provided preparations for the camp such as hiring counselors/volunteers, ordering t-shirts, and imaging computer labs
- Created engaging lessons for the campers in HTML, CSS, JavaScript, Unity, C#, Python, Lego NXT Robotics, Scratch, and Adobe Photoshop
- Supervised campers walking across campus, swimming at the recreation centre, and eating the community centre

## Education

Western University  
London, Ontario

Software Engineering (BEng), 2017 - 2021

- Achieved a 3.9 GPA each year in a competitive and evolving software engineering program
- Studied courses that emphasized important concepts in theory, design, and implementation
- Received academic awards that included the Ontario Professional Engineers Foundation Entrance Scholarship, Western Admission Scholarship, and Dean's Honor List (x3)