

Brian Lee

Systems Design Engineering | bj22lee@uwaterloo.ca | <https://brnjlee.com>

Technical Skills

Languages: Javascript (ES6), HTML / SCSS, Python, SQL, C++, Java

Frameworks: React, Redux, Apollo, GraphQL, Flask, Node.js, Express, Three.js, GSAP, Anime.js

Databases/ORMs: MongoDB, PostgreSQL, MySQL, SQLAlchemy

Technologies: Git, Heroku, Jest, Enzyme, Docker, AWS

Experience

Emagin - Full Stack Developer

April 2019 - August 2019

- Took ownership of the metrics dashboard redesign, implementing core features using **React + Redux**, **Flask** and **GraphQL**
- Developed a **Highcharts** graph visualization tool to display water pump activity and forecasts
- Integrated an **AWS Lambda** service to format incoming **S3** water pump data in real time
- Maintained thorough documentation and unit tests with **Enzyme** and **JSDoc**

Empire Life, Innovation Lab - Software Developer

September 2018 - December 2018

- Designed and developed a chatbot module integrated with a Support knowledge base
- Integrated **Google Dialogflow** to handle client queries producing a 80% decrease in CSR workload
- Led a team of frontend developers to develop the chatbot **React + Redux** component library
- Maintained thorough documentation and unit tests with **Jest/Enzyme**

Q4 Inc. - Automation Developer

January 2018 - April 2018

- Automated regression testing for web products in **Java** using **Selenium**, and **TestNG**
- Created automated test suites for the product's front end and REST APIs increasing the testing workflow efficiency by more than 90%

Projects (Github: brnjlee)

LooChat (<https://loochat.herokuapp.com>)

December 2018 - January 2019

- Created a P2P chat application that handles messages and video calls using **Socket.io** and **WebRTC**
- Built web and mobile clients in **React/React Native + Redux**, paired with a **Node/Express** REST API
- Stored conversation and connection data with **MongoDB**

Zepplan (Work In Progress)

August 2019 - Present

- Developed a project management tool with smooth and seamless UI using javascript animations
- Web client built in **React + Redux**, paired with a **GraphQL** API in **Flask**

Education

Candidate for BAsC, Systems Design Engineering 2022

September 2017-Present

University of Waterloo, Waterloo, ON