

CHAMOD GAMAGE

Systems Design Engineering

✉ chamod.gamage@uwaterloo.ca

🌐 <https://www.chamod.ga>

in /in/chamod-gamage

🔗 /chamod-gamage

SKILLS

JavaScript, TypeScript, React, React Native, Node.js, Docker, Azure, Google Cloud Platform, Kubernetes, Git, HTML, CSS, Python, Java, C++, MongoDB, SQL

EXPERIENCE

DevOps Developer

Honeybee Hub Inc. 📅 May 2020 - August 2020

- Owned the **end-to-end development** of key features for a research study digital marketplace startup, assisting in achieving **600% growth** in active users (now **2000+**)
- Containerized applications with **Docker** and deployed to **MS Azure**, increasing usage efficiency
- Orchestrated secure **Kubernetes** networking structure on **Google Cloud Platform** to enable HIPAA compliant healthcare data management, saving **\$1000/month** compared to outsourced network management

Full Stack Web Developer (Co-op)

Honeybee Hub Inc. 📅 January 2020 - April 2020

- Redeveloped landing page using **React.js**, **HTML**, and **CSS** to increase user discovery/retention, reducing bounce rate from **60% to 10%** 🌐
- Acted on user feedback by **single-handedly developing** the scheduled messaging feature for researchers, all the way from **front-end styling** to **database architecture**
- Led creation of an updated roadmap for internal usage regarding the development of new software features
- Implemented a **user interview methodology** for user research regarding planned product features, yielding key insights into the user base during user interviews

Mechanical Executive Lead

Absolute Robotics 📅 2015 - 2019

- Trained and led the mechanical team (**over 80 members**) in the design, prototyping, and construction of multiple **FIRST Robotics Competition (FRC)** robots
- Coordinated with fellow executives to ensure successful completion of robot in tight 4-week timeframe, leading team to **2018 FRC World Championship Semifinals**
- Successfully integrated automated processes using **Java** and **C++**, ensuring successful automated periods in competition matches
- Raised **over \$7000** in funds through sponsorship meetings with numerous companies through effective communication of the robotics team's marketing value

PROJECTS

Employee Management System | Java 🔗

- Constructed **Java** desktop application with NetBeans to manage employees using **object-oriented programming** principles for efficient data management
- Enabled CRUD operations and search functionality for thousands of employees stored in a **hash table**
- Enabled long term usage of EMS by providing external **data storage**

Stocksimple | HTML, CSS, React 🔗 🔗

- Developed a web application **from scratch** using **HTML**, **CSS**, and **React.js** for users to track value of stock portfolio
- Integrated **Tradier API** to stream data about current and past markets and **localStorage** for portfolio storage
- Utilized advanced state management techniques such as **React Context API** for scalable application design

ACHIEVEMENTS

- 2020 University of Waterloo Dean's List
- Ranked **#2** in Systems Design Engineering
- 2019 University of Waterloo Dean's List
- University of Waterloo President's Scholarship of Distinction
- 2018 FRC World Championship Semifinalist
- 2018 FRC Ontario Championship Finalist
- 2018 STEMley Cup Champion
- Top 5% on Fermat Mathematics Contest

EDUCATION

BASc, Systems Design Engineering
3.97 GPA (93%)

University of Waterloo

📅 2019 - 2024

Hobbies:

Rollercoasters, Sudoku, Basketball, Piano