

# CHAMOD GAMAGE

## Systems Design Engineering

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🌐 <https://www.chamod.ga>

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## SKILLS

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

## EXPERIENCE

### Software Developer

**FutureFit AI** 📅 Aug 2020 - Dec 2020

- Developed career coaching platform end-to-end with **React.js, Node.js, & PostgreSQL** for CCYP (Canadian Council for Youth Prosperity), enabling personalized coaching of **thousands** of youth
- Redesigned platform to meet **WCAG** accessibility standards, focusing primarily on keyboard navigability and screen-reader access
- Developed the central hub of a career guidance platform to be in the hands of **10000+ users** globally in 2021 and was instrumental in attracting customers such as RBC
- Remediated security vulnerabilities exposed by 3rd-party penetration testing and earned vulnerability-free rating, earning trust of **multiple Fortune 500 companies**

### DevOps Developer

**Honeybee Hub Inc.** 📅 May 2020 - Aug 2020

- Owned the **end-to-end development** of key features for a research study digital marketplace startup, assisting in achieving **1500% growth** in active users (now **4000+**)
- 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.** 📅 Jan 2020 - Apr 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

## 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