

CHAMOD GAMAGE

Systems Design Engineering

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🔗 chamod.ga

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🐙 github.com/chamod-gamage

SKILLS

JavaScript, React (Native/.js), Node, Express, Mongoose

Docker, MS Azure, Google Cloud Platform, Kubernetes

HTML, CSS, Python, Java, C++, MongoDB, SQL, Git

EXPERIENCE

DevOps Developer (Part-time)

Honeybee Hub Inc.

📅 May 2020 - Present

- Owned the **end-to-end development and implementation** of key features for a research study **digital marketplace** startup
- Containerized applications with **Docker** and deployed them to **Azure** in order to increase software resource usage efficiency
- Coordinated container migration to **Google Cloud Platform**, architecting a secure networking structure to enforce **HIPAA compliance**, enabling management of sensitive data and saving **\$1000/month** (compared to external network management)

Full Stack Web Developer (Co-op)

Honeybee Hub Inc.

📅 Jan 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**
- Implemented a **user interview methodology** for user research regarding planned product features, yielding **key insights** into the company's user base during user interviews
- Led the creation of an updated **roadmap** for internal usage regarding the development of new features for the product

Mechanical Executive Lead

Absolute Robotics (FIRST Robotics Team 4308)

📅 2015 - 2019

- Trained and led the mechanical team (**over 80 members**) in the initial design, constant prototyping, and physical construction of **multiple competition robots**
- Coordinated with fellow executives and their subteams to ensure the successful construction of competition robots in a tight **4-week timeframe**, leading team to **2018 FRC World Championship Semifinals**
- Successfully **integrated automated processes** through software development in **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*

github.com/chamod-gamage/EMS

- Constructed a user-friendly **Java desktop application** in NetBeans to manage employees using **object-oriented programming** principles for efficient data storage and access
- Implemented ability to add, remove, view, and edit information for **thousands** of full-time and part-time employees stored in a **hash table**
- Provided ability to read information from and save information to an **external text file**, enabling long-term use of the EMS
- Ensured quality of Employee Management System using automated **unit testing** and **functional testing** in JUnit

Personal Website | *HTML, CSS, React.js*

chamod.ga

- Developed a website **from scratch** using **HTML5**, **CSS**, and **React.js** to highlight past projects and experiences
- Implemented **responsive design** and CSS animations for user interactivity
- Gained **foundational web development and design knowledge** that proved to be valuable in subsequent work experiences

ACHIEVEMENTS

- **Ranked #2 in Systems Design Engineering**
- **2019 Fall Term University of Waterloo Dean's List Recipient**
- **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 Candidate in Systems Design Engineering (**92% GPA**)

University of Waterloo

📅 2019 - 2024

Hobbies:

Rollercoasters, Sudoku, NBA, Soccer, Piano