

CHAMOD GAMAGE

Systems Design Engineering | Full Stack Developer

✉ chamod.gamage@uwaterloo.ca

🌐 <https://www.chamod.ga>

in /in/chamod-gamage

🔗 /chamod-gamage

SKILLS

JavaScript, TypeScript, HTML, CSS, Python, Java, C++,
React.js, Node.js, GraphQL, Flask, MongoDB, SQL,
Git, Docker, Azure, GCP, AWS, Kubernetes, Firebase

EXPERIENCE

Full Stack Developer

LCBOnext 🌐 📅 May 2021 – Aug 2021

- Built the Grocery Claims web application using **React (TS)**, **Node.js**, **TypeORM**, **PostgreSQL**, enabling coordination of potential refunds and returns on **>\$300M** worth of goods
- Managed developer team processes by creating **Notion** documentation + task board, scoping & delegating tickets, and configuring deployment pipelines on **MS Azure**
- Revamped pricing data pipeline with **Tesseract OCR**, a combined **ElasticSearch & SQL** product database, and a **Flask** server deployed on **Kubernetes**, enabling real-time price updates to in-store LCD tags with **400%** less latency

Software Developer

FutureFit AI 🌐 📅 Aug 2020 – Jan 2021

- Developed career coaching platform end-to-end with **React (+Redux)**, **Node.js**, & **PostgreSQL** for the Canadian Council for Youth Prosperity, enabling personalized coaching for **thousands** of youth
- Refactored company's flagship product 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 🌐

Full Stack Developer → DevOps Developer

Honeybee Hub Inc. 🌐 📅 Jan 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 **5000+**)
- Orchestrated secure networking structure in-house using **Google Kubernetes Engine** to enable HIPAA compliant healthcare data management, saving **\$1000/month**
- Redeveloped landing page using **React.js**, **HTML**, and **CSS** to increase user discovery/retention, improving SEO and reducing bounce rate from **60% to 10%** 🌐
- Acted on user feedback by conceiving, designing, and implementing a scheduled messaging feature for researchers using **MongoDB**, **Node.js**, and **React.js**, saving user time 🌐

PROJECTS

PC Donation Hub | **MERN**, **GraphQL** 🌐 🔗

- Architected + built a **central donation hub** for The Pregnancy Centre as a developer on UW Blueprint 🌐 to aid women in need
- Owned authentication & asset hosting, using **Node.js (TS)** backend + **Firebase**
- Built frontend (**React**) dashboards allowing staff to create and edit donation requests
- Stored & served requests with **MongoDB** and **GraphQL APIs (Apollo + Express)**

Stocksimple | **React**, **Node**, **MongoDB** 🌐 🔗

- Developed SPA + API using **React**, **Node.js**, & **MongoDB** to track stock portfolio (deployed on Netlify and Heroku)
- Utilized **Tradier API** to stream market data
- Implemented custom **JWT** authentication

Employee Management System | **Java** 🔗

- Constructed **Java Swing** desktop app to manage employees using **OOP** principles for efficient data management
- Enabled **CRUD** operations and search functionality for thousands of employees stored in a **self-implemented hash table**

ACHIEVEMENTS

- University of Waterloo Dean's List (x3): Ranked **#2** in Systems Design Engineering
- 2018 FRC World Championship Semifinalist, STEMley Cup Champion
- Top 5% on Fermat Mathematics Contest
- HooHacks 2020 Honourable Mention

EDUCATION

BASc, Systems Design Engineering

University of Waterloo - **3.98 GPA (93%)**

📅 2019 – 2024

Relevant Courses:

Data Structures & Algorithms - 96%,

Human Factors in Design (UX Design) - 92%

Interests: Rollercoasters, Puzzles, NBA, Piano