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, React Native, Node.js, Flask, MongoDB, SQL, Git, Docker, Azure, GCP, AWS, Kubernetes, Consul

EXPERIENCE

Software Developer
FutureFit AI ✆ 📅 Aug 2020 - Dec 2020

- 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
- 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 by **60%**
- Orchestrated secure networking structure using **Google Kubernetes Engine** 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, improving SEO and reducing bounce rate from **60% to 10%** ✆
- Acted on user feedback by **single-handedly developing** a scheduled messaging feature for researchers end-to-end using **MongoDB, Node.js, and React.js** ✆
- 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 **self-implemented hash table**
- Enabled long term usage of EMS by providing external **data storage**

Stocksimple | *React.js, HTML, CSS* ✆ ⌂

- Developed a web application **from scratch** using **React.js**, **HTML**, and **CSS**, 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**
- **2019 University of Waterloo Dean's List: Ranked #2 in Systems Design Engineering**
- **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

Relevant Courses:
Data Structures & Algorithms,
Human Factors in Design (UX Principles)

Hobbies:
Rollercoasters, Sudoku, Basketball, Piano