Mustafa Hasan

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SKILLS

Languages & Frameworks : JavaScript, React, React Native, Python, MySQL, Ruby, Ruby on Rails, Tailwind, C++, C
Tools & Environments : Git, GitLab CI/CD, Docker, Linux, Bash, VS Code, Android Studio, Figma

EDUCATION

University of Waterloo | B.A.Sc. - Computer Engineering 4th Year   Sep. 2020 – Apr. 2025
- Database Systems, Computer Networks, Algorithms & Data Structures, OOP in C++, Systems Programming and Concurrency, Compilers, Real-time Operating Systems

EXPERIENCE

Software Developer   Jan. 2024 – Mar. 2024
Semper8   Toronto, ON, CA
- Developed and styled interactive components in React Native for a social media app, including messaging features, user recommendation feed handling, and user onboarding processes, **reducing onboarding time by 30%**
- Conducted rigorous testing on iOS and Android devices to gather feedback, identify pain points, and enhance usability, while implementing optimizations for a **25% reduction in app startup time** and improved responsiveness across devices

Software Developer   May. 2023 – Aug. 2023
Lawbrokr   Toronto, ON, CA
- Transformed the application's front-end by collaborating with the UI/UX Designer to create user-friendly interfaces using Tailwind, HTML, CSS, JavaScript, and Ruby, resulting in a **40% increase in user satisfaction scores**
- Architected back-end model and controller to seamlessly integrate data into front-end for contemporary visualization through Chart.js to dynamically present real-time data

Product Manager   Sep. 2022 – Dec. 2022
Purolator   Mississauga, ON, CA
- Designed, launched, and managed new products, including an address book application, while leading cross functional teams to implement retail requirements for corporate and agent stores across Canada
- Implemented agile methodologies and led a digitization proposal, **reducing paper usage by 12%**, improving customer experience, and streamlining processes for retail staff and employees

PROJECTS

Scalable Social Media Blogging Site | *Ruby on Rails* | https://reddit-ish-jhiq.onrender.com
- Developed a blog platform with user authentication via Devise, enabling seamless registration, post creation/editing, image uploads, and interactive features like voting, commenting, and searching
- Utilized Tailwind for front-end design, Pagy for pagination, and custom CSS to create a user-friendly and responsive blog interface within an MVC framework

Movies Database | *Python, MySQL*
- Architected a MySQL database to store movie information, integrating datasets such as movie metadata, budget details, ratings, and box office performance, enabling detailed analysis of movie attributes and performance metrics
- Designed to support data mining and extensive querying capabilities via console commands

LocalLink | *Kotlin, Jetpack Compose, Flask, AWS, PostgreSQL*
- Engineered a Kotlin-based mobile app with Jetpack Compose, connecting users to local volunteer opportunities using MVVM architecture
- Implemented Flask backend on AWS with PostgreSQL database for efficient data management and API interactions
- Integrated features like personalized recommendations, calendar sync, and volunteer hour tracking to boost community engagement