Ishan Ghimire

Software Engineer, University of Waterloo

⋈ ighimire@uwaterloo.ca ishanghimire.tech github.com/beshup

Skills

Languages | JavaScript, Ruby, Python, Go, C, C++, Scala, SQL

Technologies | Node.js, Rails, React, GraphQL, Pyramid, Docker, PostgreSQL, MongoDB, Flutter, Apollo

Experience

Software Engineering Intern | Flight Deck - Royal Canadian Air Force

May 2020 - September 2020

- Developed + shipped microservice, a passport management application for 3100+ aircrew, built with React/Rails
- Spearheaded creation/adoption of GraphQL API, lowering load time significantly by eliminating waterfall requests
- Transformed the central interface used by 1600+ aircrew daily to track missions, reducing data entry by 24%
- Avoided reconstruction of database architecture for monolithic Rails application by implementing Active Model
- Boosted developer efficiency by introducing HMR and restructuring Docker workflow, cutting startup time by 240%

Software Engineering Intern | Tamvoes Health Inc.

March 2020 - August 2020

- Architected, developed and shipped entire payment infrastructure for user subscriptions, utilizing webhooks
- Built 15+ REST APIs in Pyramid, interacting with frontend Node. js server, PostgreSQL database, Redis, and Stripe
- Reduced component load time by 34%, replacing unnecessary AJAX calls by implementing a JWT solution
- Doubled registration rate on landing page by revamping UI and utilizing local storage to curate user experience
- Implemented internationalization site-wide with i18n and jQuery, adding 52 countries to potential client base

Full Stack Developer | ETHGlobal

December 2019 - February 2020

- Developed a geocaching app gamifying city exploration for 800+ hackers at ETHDenver, compensating users with tokens based on physical proximity to events, while recording transactions on a blockchain built in Go
- Migrated ETHWaterloo (hackathon) winning prototype's Flask API to Node.js/Express

Founder | Edmonds Engineered

June 2018 - January 2020

- Founded edmondsengineered.com to help develop self-starting attitudes in highly under-privileged community
- Conceived and hosted 2 STEM Camps over 2 years for 230+ youth
- Remotely led team of 5 developers in building educational, cross-platform Flutter based application

Projects

Go2Balancer | Concurrent TCP Load Balancer | Net | 🗘

- Built a lightweight TCP load balancer in Go using goroutines to concurrently handle large workloads
- Implemented a novel algorithm to optimally choose backend server with least active connections

COVID My Tweets | Covid-19 Sentiment Visualization | Flask, Node.js, MongoDB | 🗘 🖸



- Developed algorithm to identify statistically significant geographic trends in social media sentiment towards Covid
- Featured self-updating heat map of North America, search feature for sentiment of any city

UnderratedTunes | Social Platform for Music Lovers | Node.js, Express, MongoDB, Bootstrap | 🗘

- Created underratedtunes.com, a platform connecting 100+ music-lovers posting/discussing underrated music
- Used Spotify API data to promote least popular songs to top of page and generate posts for authenticated users

Fun Guy Home Security | Remote Home Security | Swift, Particle Photon |

- Built iOS app allowing users to remotely toggle door locks, using Particle Photon and a PIR motion sensor
- Notified homeowners of break-ins with in-app notifications and text messages through Twilio

Education