Ishan Ghimire

Software Engineering, University of Waterloo

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Skills

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

Technologies | Node.js, Rails, React, GraphQL, Flask, Docker, Kubernetes, Redis, PostgreSQL, MongoDB, Vue

Education

University of Waterloo | Bachelor of Software Engineering (B.SE)   September 2019 – Present
3.9 GPA, Dean's Honors List (2020, 2021), Software Engineering Entrance Scholarship

Experience

Infrastructure Engineering Intern | Shopify   Jan. 2021 – Apr. 2021

- Built and championed system design of end-to-end content scanning infrastructure **servicing 30k emails/day**
- Developed, released, and integrated multiple versions of internal Ruby gems handling client purposes
- Scaled synchronous scanning workload while protecting email latency of system serving **millions of users**, by architecting and implementing complex observability infrastructure spanning Kafka, Redis, and Go microservices
- Created fully comprehensive Go client library for rspamd

Software Engineering Intern | Flight Deck – Royal Canadian Air Force   May 2020 – Sept. 2020

- Transformed the central interface used by **1600+ aircrew** daily to track missions, reducing data entry by **24% on 80k data points,** directly resulting in **5000 hours** and **$300k saved** in 2 months
- Developed and shipped a Rails/React/GraphQL passport management application from the ground up, for **3100+ aircrew**
- Pitched and spearheaded adoption of GraphQL due to data-driven nature of service, lowering load time significantly
- Individually introduced HMR with webpacker, and restructured Docker workflow, **cutting startup time by 58%**

Software Engineering Intern | Tamvoes Health Inc.   Mar. 2020 – Aug. 2020

- Individually developed entire payment infrastructure for user subscriptions, utilizing webhooks and Stripe
- Built multiple end-to-end features working extensively with Node.js/Express, Pyramid, PostgreSQL, Redis, jQuery
- **1.6x'ed registration rate** on landing page by redesigning UI and implementing internationalization site-wide

Founder | Edmonds Engineered   Jun. 2018 – Jan. 2020

- Founded the NPO edmondsengineered.com to help develop self-starting attitudes in under-privileged community
- Remotely led team of 5 developers in building an educational Flutter-based application
- Created, organized and hosted 2 STEM Camps over 2 years for **230+ youth**

Projects

Pr!ce | Seasonal NFT Stock Marketplace | **ETHDenver Winner** | *React, Node.js, Flask, Solidity* | ⌗ ⌗ Ⓓ

- Created a marketplace issuing ERC-1155 shares of off-chain entities, powered by in-house Automated Market Maker
- Winner of **5 sponsor bounties**, featuring in Chainlink blog, approached by multiple VC firms, and pitched to Dapper Labs

Minebusker | Decentralized Platform for Street Performers | **ETHWaterloo Winner** | *Flask, Solidity, Maps API* | Ⓓ

- Developed a geocaching app gamifying city exploration for citizens, while providing cryptocurrency revenue for buskers
- Recruited by ETHGlobal after winning, to integrate app into services for use at future Ethereum based events

Clay | 3D Graphics Engine | *C++* | ⌗

- Built graphics engine exposing client-facing API, utilizing linear algebra to simulate movement within 3D space

Go2Balancer | Concurrent Load Balancer | *Go, Net* | ⌗

- Built a lightweight TCP load balancer using goroutines to concurrently handle large workloads, choosing server optimally

UnderratedTunes | Social Platform for Music Lovers | *Node.js, Express, MongoDB, Bootstrap, Spotify API* | ⌗

- Created underratedtunes.com, a platform connecting **100+ authenticated users** posting/discussing songs