

CRAIG LEWIS

4B Computer Science Student

 craigericlewis  craig-eric-lewis  celewis@uwaterloo.ca  craiglewis.me

SUMMARY OF QUALIFICATIONS

Languages	Go, Python, Java, JavaScript, TypeScript, C, C++, PHP, SQL, Racket, Bash, HTML, CSS
Frameworks	React, D3, Redux, gRPC, GraphQL, Angular, Node.js, Express, Django, Flask, Thrift
Database & Pipeline	MongoDB, PostgreSQL, Bigtable, Apache Beam, Memcached, Elasticsearch, Firestore
Tools	Git, Docker, Cypress, Envoy, Jest, Enzyme, AWS, GCP, Fastly, Unix Shell, Unity

EXPERIENCE

Facebook

January 2021 - April 2021

Software Engineer Intern

Remote



- Shifted Instagram's shopping tab integrity checks upstream, added concurrency using **C++ folly** and queried monetization information directly from the database, reducing latency by **100ms** and decreasing fetch counts by **16%**
- Built a pipeline in **Django** to deliver flagged media to reviewers for evaluation and updating users' monetization status
- Added push notifications using **Django** and **PHP** for creators when their payout information is missing or incorrect
- Migrated core Instagram commerce and shopping endpoints from **Thrift** to **GraphQL**

Google

May 2020 - August 2020

Software Engineer Intern

Mountain View, CA

-  Designed and implemented a full-stack application with **Python**, **gRPC**, **Typescript** and **React** to search, parse and visualize metrics associated with tests run on Google hardware
- Set up a CI pipeline with **Google Cloud Build**, **Docker** and **Cypress** for end to end testing and deployment
- Constructed the client API using **gRPC-Web** and proxied requests through **Envoy** to the backend server
-  Integrated **D3.js** with **React** and published an npm library of components to visualize side channel analysis data

Postmates

September 2019 - December 2019

Software Engineer Intern

San Francisco, CA

- Developed a custom checkout integration using **Go** and **React** for Old Navy online orders fulfilled by Postmates' fleet, generating **\$20,000** of delivery revenue weekly
- Re-engineered SMS notifications for deliveries in **Django**, to improve code clarity and reduce code duplication
- Migrated existing consumer facing RPC endpoints to **GraphQL** in **Go** by constructing schemas and resolvers
- Modified pipelines using **Apache Beam** and **Elasticsearch**, integrating new properties to merchant's feed rankings

Vidyard

January 2019 - April 2019

Software Developer Intern

Kitchener, ON

- Migrated Vidyard's player from **VideoJS** to a **React**, **Redux**, **TypeScript** player reducing payload size by **52%**
- Componentized the player's sharing, embed, and playlist controls to compartmentalize common behaviours
- Developed an **internationalization module** to translate the player's UI based on the user's browser language
- Integrated YouTube playback functionality with Vidyard's native player controls using **YouTube's player API**

Stratus360

May 2018 - August 2018

Full Stack Developer Intern

Toronto, ON

- Led the development of a self-service portal serving **80+** partners for a large telecommunications organization
- Integrated **Google Docs** with Salesforce using **Google's** and **AODocs' API** thereby reducing required storage by **50%** and enabling file tagging to serve as an enterprise grade storage solution
- Engineered a customizable submission framework, implementing **multilingual** and **versioning** capabilities

EDUCATION

University of Waterloo

September 2017 - April 2022

Candidate for Bachelor of Computer Science