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SKILLS

PROGRAMMING

Languages:

Ruby • C++ • C • SQL • Python • Bash • Java • JavaScript • HTML/CSS

Frameworks and technologies:

Rails • Redis • GNU/Linux • Node.js • NGINX • AWS

Tools:

Git • Vim • tmux

EDUCATION

UNIVERSITY OF WATERLOO

BCS IN HONOURS COMPUTER SCIENCE

Expected May 2020 | Waterloo, ON mGPA: 93%

- President's Scholarship of Distinction
- Software Engineering Entrance Scholarship
- Dean's Honour List

COURSEWORK

UNDERGRADUATE

Programming Principles in C Data Abstraction/Implementation in C++

ONLINE

Data Structures and Algorithms (Coursera) Machine Learning (Coursera)

DISTINCTIONS

- Top 125/6000 Canadian Open Mathematics Challenge
- 6th/6000 Canadian Senior Mathematics Contest
- Top 20 Finalist Ontario Chemistry Olympiad

EXPERIENCE



Google | Software Engineering Intern

January 2017 - April 2017 | Mountain View, CA



May 2016 - August 2016 | Ottawa, ON

Backend work on the internal shipping provider API in **Ruby**. Full-stack work on the core Shopify platform in **Rails**.

- Introduced a formalized ETL framework with smaller, testable modules for polling tracking data from shipping carriers
- Implemented USPS tracking information polling within the ETL framework using parallelized background jobs, decreasing upper bound of real-time tracking updates **from a few hours to 15 minutes**
- Integrated shipment options into our shipping microservice API using a Log4j-like design pattern, enabling 300k+ merchants to purchase add-ons for their shipping labels

PROJECTS

STUDBUDS.COM | Co-Founder + Lead Developer

June 2015 – present

University of Waterloo peer tutoring platform with 160+ registered students. A Velocity company. Built with Rails, Redis and Sidekiq.

- Implemented a **background payment pipeline** with the Stripe API, enabling automatic P2P payment authorization, captures, and refunds
- Integrated live chat and notifications over **WebSockets** that hook into
- Provisioned cron jobs to send emails for unread messages and updates

NEWS SCRAPER | RUBY GEM

August 2016 - present

ETL web scraper that aggregates news articles. Written in **Ruby**.

- Abstracted scraping title, content and other fields from articles into an ETL framework
- Implemented a configuration-first architecture that scales to scrape news articles from multiple sources
- Devised a **command-line interface** to simplify the process of supporting additional news sites

ANONYMEYES.COM | WINNER AT HACK THE NORTH 2015 September 2015

Public video feed where users can anonymously post videos that are instantaneously uploaded and backed up. Built with Rails and AngularJS.

- Implemented a **Rails server** that receives MP4 metadata and pushes updates to the web client via WebSockets
- Integrated a live dashboard on top of Angular JS that displays an interactive feed for all incoming video streams