# Aman Dureja

adureja@edu.uwaterloo.ca | github.com/aman-dureja | linkedin.com/in/amandureja | amandureja.com

#### **Skills**

Languages: C++ / Python / Go / Java / Ruby / JavaScript / Bash / SQL / OCaml / Haskell

Technologies: Kubernetes / Docker / Spring / MySQL / Rails / Ansible / Puppet / Chef / Terraform / AWS

Concepts: Algorithms / Operating Systems / Concurrency / Distributed Systems / Databases

## **Experience**

LinkedIn - Systems and Infrastructure Engineering Intern - Sunnyvale, CA

Sep - Dec 2019

• Developing a high-throughput, low-latency, distributed graph database and query engine in C++

Apple - Software Engineering Intern - Sunnyvale, CA

Jan - Apr 2019

- · Reduced CI turnaround time by 2 hours by implementing intelligent job scheduling and decentralized caching
- Migrated network edge layer to NGINX-based software VIPs, enabling granular testing of distributed services
- Developed Linux daemons with Go to monitor filesystem and notify state management service of events

**Zynga** – Software Engineering Intern – Toronto, ON

May – Aug 2018

- Increased CI throughput 50x by containerizing projects with Docker and scheduling AWS EC2 spot instances
- Provisioned AWS infrastructure by writing infrastructure as code using Terraform, Packer, Puppet, and Chef
- Architected a service-oriented in-app payments system with Java Spring in a SOX-compliant environment

Shopify - Software Developer Intern - Montréal, QC

Sep - Dec 2017

- Upgraded core codebase to Ruby 2.4, reducing request latency by 66% and operation costs by \$1M+
- Architected a zero-downtime Ruby version upgrade system using multiple clusters and parallel CI pipelines
- Implemented an automated Docker container build system in Go, resulting in 50% faster builds and deploys

TribalScale - Software Engineering Intern - Toronto, ON

Jan - Apr 2017

Developed rich, scalable web applications with NodeJS, Ruby on Rails, PostgreSQL, and AWS Lambda

Mappedin – Software Developer Intern – Waterloo, ON

May - Aug 2016

Built a content management system and 3D wayfinding platform with NodeJS, ReactJS, and MongoDB

# **Projects**

ARM CPU Emulator - OCaml, ARMv4T - amandureja.com/arm-cpu-emu

Software implementation of the ARM7TDMI processor; interprets the full ARMv4T instruction set.

Path Tracer - Haskell - amandureja.com/path-tracer

A path tracing library implemented in pure Haskell; supports multiple textures, reflections, and viewing angles.

### **Education**

University of Waterloo, Honours Bachelor of Software Engineering

Sep 2015 - Apr 2020