Aman Dureja

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Skills

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

Technologies: Rails / Spring / MySQL / Kubernetes / Docker / Ansible / Puppet / Chef / Terraform / AWS **Concepts:** Operating Systems / Concurrency / Distributed Systems / Site Reliability Engineering

Experience

Apple | Software Engineering Intern | Sunnyvale, CA

Winter 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

Summer 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

Fall 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

Winter 2017

- Architected the NBA Alexa skill on AWS Lambda with NodeJS and MVC design, attracting 1000+ downloads
- Implemented a full-stack resource allocations tool with Ruby on Rails and ReactJS to manage 100K+ records

Mappedin | Software Developer Intern | Kitchener, ON

Summer 2016

- Developed an automated blueprinting tool using OpenCV and Canny Edge Detection to simplify map import
- Reduced task repetition by implementing a map templating system using ReactJS, NodeJS, 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.

SockServe | C++ | amandureja.com/sock-serve

A low-level, object-oriented HTTP server toolkit programmed using TCP sockets.

Education