





# Aman Dureja

software developer

 [amandureja.com](http://amandureja.com)  
 [adureja@edu.uwaterloo.ca](mailto:adureja@edu.uwaterloo.ca)  
 [github.com/aman-dureja](https://github.com/aman-dureja)  
 [linkedin.com/in/amandureja](https://linkedin.com/in/amandureja)

## Experience

**Software Developer** • Shopify | Autumn 2017 • Montreal, QC

*Ruby, Ruby on Rails, Go, Bash, MySQL, Docker, Kubernetes*

- Developed features for Checkout and Payment experiences, impacting **500K+** merchants
- Championed **Ruby 2.4** upgrade, reducing request latency by **60%** and operation costs by **\$1M+**
- Architected an automated **Docker** container build system for **50% faster** deploys and CI runs
- Prepared **sharded, distributed** infrastructure to handle **80K+** requests per minute
- Leveraged system **profiling** tools and **flamegraphs** to optimize **performance bottlenecks**

**Agile Software Engineer** • TribalScale | Winter 2017 • Toronto, ON

*Amazon Alexa, AWS, Ruby on Rails, NodeJS, ReactJS, Redux, PostgreSQL*

- Architected the NBA **Alexa** skill on **AWS Lambda** with **NodeJS**, attracting **1000+** downloads
- Leveraged **indexing** and **concurrency** strategies to accelerate database operations by **40%**
- Implemented a **full stack** resource allocations tool to manage **100K+** records
- Developed *liveathos.com* with **ReactJS**, leveraging **server-side rendering** and a **CDN**

**Software Developer in Test** • Mappedin | Summer 2016 • Kitchener, ON

*ReactJS, NodeJS, MongoDB, Jenkins CI, Sahi Pro*

- Implemented features for CMS and map design applications, impacting over **40M** users
- Integrated automated **error tracking** and reporting into production kiosk software
- Architected an automated **continuous integration** and deployment pipeline using **Jenkins CI**
- Automated over **200 integration tests**, reducing time taken for a full production release by **50%**

## Projects

**ARM CPU Emulator** • OCaml, ARMv4T • [amandureja.com/arm-cpu-emu](http://amandureja.com/arm-cpu-emu)

Software implementation of the **ARM7TDMI** processor - interprets the **ARMv4T** instruction set.

**SockServe** • C++ • [amandureja.com/sock-serve](http://amandureja.com/sock-serve)

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

**Side-Scroller Game** • Java • [amandureja.com/side-scroller-game](http://amandureja.com/side-scroller-game)

A **multithreaded** obstacle-avoidance game programmed using **object-oriented design**.

**GooseRun** • C • [amandureja.com/goose-run](http://amandureja.com/goose-run)

An infinite side-scrolling, obstacle avoidance game for the TI **Launchpad** microcontroller.

## Skills

### Languages

- Ruby
- C++
- C
- Java
- JavaScript
- Python
- OCaml
- Go
- Bash
- SQL

### Technologies

- Docker
- Ruby on Rails
- NodeJS
- ReactJS
- MySQL, PostgreSQL
- AWS
- CI (Jenkins, Circle)
- Git

## Education

### University of Waterloo

**BSE** - Honours Bachelor of Software Engineering

2015 - 2020

## Interests

- Scalability
- Hackathons
- Music
- Cooking
- Fitness