# Aman Dureja

# software developer

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# Experience

# Agile Software Engineer • TribalScale

Winter 2017 | Toronto, ON

Amazon Alexa, Ruby on Rails, NodeJS, ReactJS, SQL

- Developed an **Alexa** skill with **NodeJS** for the NBA playoffs, attracting **1000** users
- Wrote an **adapter** to transform NBA API responses to appropriate structures
- Leveraged Amazon CloudFront CDN to improve Athos website load times by 20%
- Optimized Athos website load time to under 3 seconds with server-side rendering
- Built a resource allocations tool that handles over **100K** records with **ReactJS**
- Applied **concurrency** strategies for a **Ruby on Rails API** to prevent data corruption

# **Software Developer in Test •** Mappedin

Summer 2016 | Kitchener, ON

ReactJS, NodeJS, MongoDB, Jenkins CI, Sahi Pro

- Built features for CMS and map design application, impacting over **37M** users
- Integrated automated **error tracking** into production map kiosk software
- Architected an automated testing and deployment pipeline using Jenkins CI
- Improved testing process efficiency by automating over **200 integration tests**

#### **Projects**

**ARM CPU Emulator** • *OCAML, ARMv4T* • amandureja.com/arm-cpu-emu

Software implementation of an **ARM7TDMI processor** core that interprets the ARMv4T THUMB instruction set. Leveraged **functional programming** in OCAML.

**SockServe** • C++ • amandureja.com/sock-serve

A low-level, object-oriented server toolkit programmed using **TCP sockets**. Supports handling **HTTP** requests with callback functions.

**Side-Scroller Game** • Java • amandureja.com/side-scroller-game

A **multithreaded** side-scrolling game in which the player must collect items while avoiding obstacles. Programmed using **object-oriented design principles**.

Alexandria • NodeJS, Firebase • amandureja.com/alexandria

A **server-side** application that serves snippets from a library of over 50 000 public-domain books. Developed at **Hack the North 2016**.

#### Skills

## Languages

- JavaScript
- CSS3
- Ruby on Rails
- Java
- C++
- C
- Python
- OCAML
- SQL

# **Technologies**

- Git
- Amazon Alexa
- NodeJS
- ReactJS
- AWS
- Jenkins CI, Circle CI
- Firebase
- MongoDB

# Education

# **University of Waterloo**

**BSE** - Honours Bachelor of Software Engineering

2015 - 2020

#### Interests

- Hackathons
- Music
- Guitar
- Cooking
- Fitness