

# GEORGE UTSIN

A Software Engineering student at the University of Waterloo.

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## EXPERIENCE

### Microsoft, Redmond WA — *Software Engineering - Big Data*

SEPTEMBER 2017 - DECEMBER 2017

- Developed **Big Data pipelines** to decrease customer query time from hours to seconds, translating to a ~1000x increase in performance.
- Created and optimized **MapReduce** equivalent jobs to create service stability performance indicators, promoting data driven decisions.
- Instrumented **telemetry pipelines** to decrease application outage detection time from daily polling to real time alerting.

#### Languages:

C#, SCOPE (Hive-QL equivalent),  
Kusto Query Language

#### Technologies:

Cosmos (Apache Spark equivalent),  
Visual Studio, Nuget, Power BI, Git

### Salesforce, San Francisco CA — *Infrastructure Engineering*

JANUARY 2017 - APRIL 2017

- Developed and maintained **internal tooling** in Go to automate ops tasks such as dashboard and alert creation for new datacenters.
- Investigated and implemented a **high availability data layer** for critical health services on an in-house Kubernetes implementation.
- Improved reliability by utilizing **distributed Redis+Sentinel** within a concurrent Vert.X Java microservice in a Dockerized environment.

#### Languages:

Go, Bash, Java

#### Technologies:

Kubernetes, Docker, Redis, Redis Sentinel, Vert.X (Java), Argus, Git

### Shopify, Ottawa ON — *Backend Ruby on Rails Developer*

MAY 2016 - AUGUST 2016

- Developed **REST interfaces** for highly anticipated functionality in the admin used by hundreds of thousands of merchants.
- Reduced technical debt by improving existing data models through **migrations and refactors**, leading to better code maintainability.
- Enhanced the **automated documentation** suite through DSL features that ensure up to date public documentation at all times.

#### Languages:

Ruby, SQL, HTML/Embedded Ruby

#### Technologies:

Ruby on Rails, Git, Dev, MySQL,  
GitHub, Large Hadron Migrator

### GameNextDoor, Toronto ON — *Primary iOS and Backend Developer*

JUNE 2015 - DECEMBER 2015

- Created and supported the social **Swift iOS app** for the company.
- Integrated with Google API's for **user retention and monetization**.
- Developed a lightweight RESTful backend in a LAMP stack.

#### Languages:

Swift, PHP, SQL, HTML/CSS

#### Technologies:

Linux/Apache/MySQL/PHP stack,  
Git, XCode

### Sandvine, Waterloo ON — *Front End Web Developer, IT*

JANUARY 2013 - MAY 2013

#### Languages / Technologies:

JavaScript, jQuery, HTML, CSS

## PROJECTS AND AWARDS

Whistlet — Node.js + MySQL Dockerized Social Network

ThermIS — OpenCV C++ and Arduino (National Science Fair Medallist x2)

Hypcache — Python Web Scraper with ID3 Editing

**Hackathons:** Waterloo Code Fest (First place), Tech Retreat (Third place),

EngHack (Top 10)

## EDUCATION

Software Engineering

University of Waterloo

2015 - 2020

## INTERESTS

Guitar, Penny Boarding, Music  
Production, Hiking and Foosball