

GEORGE UTSIN

A Software Engineering student at the University of Waterloo.

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EXPERIENCE

Facebook, New York NY — *Software Engineering*

SEPTEMBER 2019 - DECEMBER 2019

- Developed internal tooling to increase **visibility** of platform features by reducing access time by 90%. Enhanced data driven investigations during crisis events.
- Implemented public UI features that promote privacy enhancing services.
- Performed data science investigations to determine feature impact.

Languages:

Hack, JavaScript

Cockroach Labs, New York NY — *Backend Engineering*

JANUARY 2019 - APRIL 2019

- Developed a high performance columnar sort-merge-join SQL database operator achieving up to **30x faster** performance.
- Utilized go templating for **code generation** to improve speed and maintainability.
- Implemented an **extensive testing** and benchmarking suite, with 95% code coverage.
- See contributions [here](#).

Languages:

Go, SQL

Technologies:

pprof, Git

Snap, Los Angeles CA — *Research Engineering - Machine Learning*

MAY 2018 - AUGUST 2018

- Developed horizontally scalable machine learning inference endpoints to serve models for **real time inference** at low latencies and high QPS.
- Fine tuned the parallelism on the endpoints to achieve 10x QPS.
- Optimized for **large scale batch inference** using TensorFlow Model Serving.
- Supported multiple Kubernetes clusters across **GCP and AWS**

Languages:

Python, Bash

Technologies:

Tensorflow, Kubernetes (GKE/EKS), Docker, Flask, Unicorn, SageMaker, SQS

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 and performance indicators, promoting data driven decisions.
- Instrumented **telemetry pipelines** to decrease application outage detection time.

Languages:

C#, 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.
- Investigated and implemented a **high availability data layer** for critical services.
- Improved reliability by utilizing **distributed Redis+Sentinel**.

Languages:

Go, Bash, Java

Technologies:

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

Shopify, Ottawa ON — *Software Engineering - Ruby on Rails*

MAY 2016 - AUGUST 2016

- Developed **REST interfaces** for the admin facing 300k merchants.
- Reduced technical debt by improving existing data models.
- Enhanced the **automated documentation** suite through DSL features.

Languages:

Ruby, SQL

Technologies:

Rails, Git, MySQL

EDUCATION

Software Engineering (BSE) — *University of Waterloo*, 2015-2020

INTERESTS

Guitar, Penny Boarding, Photography, and Foosball