

# Yan Ke

itsyan.me • yske@uwaterloo.ca • 647-262-0026 • github.com/yanske1

## EXPERIENCE

---

**Khan Academy**, Software Engineering Intern *Mountain View, CA • May 19 - Aug 19*

- Worked with product and analytic teams to revamp A/B testing metrics based on time spent on site using Python, Dataflow, and BigQuery, saving \$12k monthly in GCP costs
- Developed a load testing framework for evaluating service performances on App Engine in Go
- Designed a server-side GraphQL schema stitcher in Go, increasing query performances by 42%

**University of Waterloo**, Research Assistant *Waterloo, ON • Jan 19 - Apr 19*

- Researched effects of recommendation systems on productivity in crowdsourcing platforms

**Scribd**, Data Engineering Intern *San Francisco, CA • Sept 18 - Dec 18*

- Redesigned data pipeline in Ruby using service discovery architecture, improving nightly performance by 23%, allowing the system to scale, and introducing support for Spark jobs
- Reduced runtime of A/B testing data analysis by 86% by migrating Hive queries to Scala Spark
- Launched a concurrent image server using Go and OpenCV, serving 80k requests per second
- Implemented K-means clustering on book cover assets to infer complementary colors in Go

**Shopify**, Backend Developer Intern *Ottawa, ON • Jan 18 - Apr 18*

- Enabled merchants to manage inventory and optimize shipping across locations by developing multi-location features in Ruby on Rails, MySQL, Javascript, Elasticsearch, and Redis
- Collaborated with product teams to deprecate and re-design checkout APIs / webhooks
- Leveraged Redis to reduce inventory database deadlocks for high traffic merchants on checkout

**Aterica**, Software Engineer Intern *Waterloo, ON • May 17 - Aug 17*

- Designed, prototyped and shipped social network features with parental controls using SocketIO on Android and Java backend; managed its incremental rollout to user groups
- Created a user engagement dashboard using React and Flask to log, process, and analyze user activity data for facilitating product decisions

## PROJECTS & ACTIVITIES

---

**Biomechatronics Student Design Team**, Software Team Lead *Sept 16 - Aug 17*

Led team of developers to train a SVM classifier to control a prosthetic hand using EMG sensors

### Personal Projects

Hacked projects for personal use, including filtering out spoilers on web pages, password encryption, tracking new TV shows, and hosting scavenger hunt games – see more on [itsyan.me/projects](https://itsyan.me/projects)

## SKILLS

---

Languages: Python, Go, Ruby, Java, C / C++, Scala, Javascript, SQL, Bash

Frameworks: Ruby on Rails, Flask, Spark, Chrome, Android, React, GraphQL

Infrastructure: Google Cloud Platform, Docker, Redis, Elasticsearch, Git

## EDUCATION

---

**University of Waterloo**, BCS Computer Science, Statistics Minor *Sept 16 - Apr 21*

- 94% average (3.98 / 4 GPA), Dean's List all terms, First in Class Engineering Scholarship 2018