

# Yan Ke

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## EXPERIENCE

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**Google**, Software Engineering Intern

*Sunnyvale, CA • Jan 20 - Apr 20*

**Khan Academy**, Software Engineering Intern

*Mountain View, CA • May 19 - Aug 19*

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

**Scribd**, Software Engineering Intern

*San Francisco, CA • Sept 18 - Dec 18*

- Redesigned data pipeline management platform in Ruby using service discovery architecture, improving nightly performance by 23%
- Reduced runtime of A/B testing by 86% by migrating Hive queries to Scala Spark
- Implemented K-means clustering on book cover assets to automate border color selection, launched on a concurrent image server using Go and OpenCV

**Shopify**, Software Engineering Intern

*Ottawa, ON • Jan 18 - Apr 18*

- Enabled merchants to manage inventory and optimize shipping across locations by developing multi-location features using Ruby on Rails and JavaScript
- Leveraged Redis to reduce inventory database deadlocks on checkout for merchants

**Aterica**, Software Engineer Intern

*Waterloo, ON • May 17 - Aug 17*

- Designed, prototyped and shipped social networking features with parental controls using Android, Java backend, Firebase, and SocketIO

## PROJECTS & ACTIVITIES

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**University of Waterloo - HCI Lab**, Research Assistant

*Jan 19 - Apr 19*

- Investigated effects of recommendation systems on productivity through literature reviews
- Developed a crowdsourcing data collection platform using Ruby on Rails, React and Docker

**Biomechatronics Student Design Team**, Software Lead

*Sept 16 - Aug 17*

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

## SKILLS

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**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

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**University of Waterloo**, BCS Computer Science (94% GPA)

*Sept 16 - Apr 21*