

Yan Ke

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EXPERIENCE

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 monthly in data streaming costs
- Developed a Go load testing framework for evaluating service performances on App Engine
- Designed a server-side GraphQL schema stitcher in Go, increasing query performances by 42%

Scribd, Data 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%, and introducing support for Spark jobs
- Reduced runtime of A/B testing pipeline 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 using 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 using 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 on checkout for high traffic 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; 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

University of Waterloo - HCI Lab, Research Assistant

Jan 19 - Apr 19

- Investigated effects of recommendation systems on productivity through literature reviews
- Developed platforms for aggregating crowdsourced data using Ruby on Rails, React and Docker

Biomechatronics Student Design Team, Software Team Lead

Sept 16 - Aug 17

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

Personal Projects

- Hacked projects for personal use and learning, including filtering out spoilers on web pages, tracking new TV shows, and hosting scavenger hunt games – see more on 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