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 Google Cloud 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%

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

University of Waterloo - HCI Lab, Research Assistant

Jan 19 - Apr 19

Researched effects of recommendation systems on productivity in crowdsourcing platforms, 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 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

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