Jeff An

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EXPERIENCE

ROBINHOOD | Senior Software Engineer, DevInfra Tech Lead — 2020 - 2022

- Led a team of 10 engineers to build a full-stack production simulation solution that ultimately became the **primary development and testing platform** at Robinhood, responsible for preventing hundreds of incidents and increasing developer velocity
- Handled **10X user growth** by designing a multi-cluster architecture that supported >1k simultaneously active developer environments, >30k hourly service creations, >100k DNS names
- Overcame low-level performance limitations within Bazel, Jenkins, and Docker to shorten developer iteration cycles by 80% and **save ~80k engineering hours** annually

GOOGLE | Software Engineer, Ads Infra — 2019 - 2020

- Developed a Golang service that analyzes service configuration changes and estimates their impact on production computing infrastructure, **saving >2k engineering hours** annually
- Built a data pipeline that autogenerates AngularJS reports using statistics from the Golang service, allowing project managers across Google Ads to track changes in resource usage

SPLUNK | Software Engineer, Cloud Infra — 2018 - 2019

- Designed a Kubernetes controller to predictively adjust the number of available AWS EC2 servers to match internal demand, **saving $1.3 million** annually

STARTUPS

OPEN MIND | Technical Cofounder — 2017 - 2018

- Published a ReactJS chrome extension that **identifies political bias in news** articles using spaCy NLP and then suggests similar articles from different political perspectives
- Featured on the Associated Press, Washington Post, Fox News, and CTV; presented research findings on fighting propaganda to **US Congress**

AWARDS

Queen's University Hackathon	- Top Overall	2018
USA Computing Olympiad	- Platinum Division	2017
International Chemistry Olympiad	- Bronze Medal	2015

SKILLS

Languages - Python, Golang, SQL, Javascript, Bazel, C++

Full Stack & ML - React, Flask, Nginx, Postgres, Mongo, Redis, Pytorch

Cloud & CI - AWS, Kubernetes, Prometheus, Docker, Jenkins, Terraform, SaltStack

EDUCATION

UNIVERSITY OF WATERLOO | Computer Science (3.97/4 GPA) — 2016