

Gaurav Rao

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Previous Employment

Apple

Machine Learning Engineer

Cupertino, CA

September 2020–Present

- Used embeddings and natural language processing to increase search quality in Siri Search
- Deployed Golang services using Kubernetes that process indexes over the internet and serve millions of daily active users

Flipout, Inc

CTO/Founder

Berkeley, CA

February 2019–March 2020

- Built serverless architecture with Node and Firebase, as well as a live score websocket service in Go, deployed on GCP Compute with Docker-Swarm
- Grew app to over 1000 daily active users, raised pre-seed round (June '19), SkyDeck HotDesk '19, Free Ventures '19
- First place SkyDeck hosted Demo Day, Finalist at Berkeley StEP Spring '19 Demo Day

Amazon

Seattle, WA

Software Development Engineering Intern

June 2019–August 2019

- Created Java Services and a Javascript frontend for internal stakeholder dashboard
- Deployed infrastructure through Amazon CloudFormation
- Wrote debug information from bayesian logistic regression model to Athena database using AWS Firehose

Machine Learning @ Berkeley

Berkeley, CA

Undergraduate Researcher

January 2020–Present

- Working with researchers in RiseLAB to create an infinite artificial dataset to study the difficulty of computer vision tasks
- Wrote a PyTorch Dataloader that interfaces with the Blender rendering pipeline

Laserlike Inc

Mountain View, CA

Engineering Intern

June 2018–August 2018

- Used Golang to schedule notifications based on user's interests for reengagement and improve daily active user rate
- Deployed microservices and reverse proxy endpoints using kubernetes/docker
- Created interactive online debug tools to benchmark image suggestions and real time notification sending.

Education

University of California, Berkeley

Berkeley, CA

BA Computer Science and Mathematics, 3.9 CS GPA 30 Putnam Score

2017–2020

Coursework: Probability Theory and Random Processes, Data Structures, Machine Structures, Algorithms, Real Analysis, Abstract Algebra, Differential Topology, Cryptography, Graphics, Computational Photography

Projects

'Blow'

Used Go and webASM to build a mapreduce-like distributed computation framework that runs on browser, then built a raytracer that distributes tasks to connected browsers

Machine Learning at Berkeley: 'Flower2Flower'

Implemented and trained CycleGAN on Google quickdraw flower dataset and real images of flowers using tensorflow. Made live demo using flask and ReactJS to convert drawings to real images of flowers.

Technical Skills

- **Programming Languages:** Proficient in: Haskell, Python, TeX, Java, Golang, Javascript, React, SQL
Also basic ability with: RISC V Assembly, CSS.