

# CHIRAG TOPRANI

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**EDUCATION** UC San Diego 2019 B.S. Cum Laude / Major: Computer Science / Minor: Economics

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## EXPERIENCE

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**lyft / Software Engineer** (Driver Earnings and Supply Shaping) / Python, Golang, Dynamo 9/20-PRESENT  
*Technical Leader & Product Thinker responsible for guiding multiple initiatives aimed at adding value to the driver experience, from ideation to launch.*

- Led multiple cross org initiatives from ideation to execution, including new “big bet” rides offerings for drivers and planning tools focused on improving driver utilization. Delivered **\$100+M profit at scale for Lyft**.
- Organized working groups for projects; coordinated teams of 8+ eng and 5+ XFN partners from design through launch.
- Drove critical parts of Lyfts urgent regulatory response in California, particularly owning core pieces of Earnings Guarantee and Healthcare Reimbursement flows.
- Guided core microservice maintenance, owning multiple SEVs and delivered critical performance improvements to T0 flows.
- Drove team roadmap over multiple quarters.
- Mentored 6 new grad, intern, and apprentice engineers into high performers.

**lyft / Software Engineer** (Rider Growth + Incentives Platform) / Python, SQL, ETL, Pandas 8/19-9/20  
*Rapidly grew responsibility from contributor to leader in a span of 12 months*

- Led team technically to build Lyft’s large scale incentive automation and targeting platform from ground up.
- Built coordination and optimization layers to scale it into a platform that now optimizes **\$500M+ per year in spend**.
- Leveraged incrementality modeling & ML personalization to increase rides by 30% at the same efficiency. Scaled platform to support any incentive type and audience, consistently providing 20-30% cost efficiency improvements for each customer.

**lyft / Software Engineering Intern** (Driver - AdTech/Martech/Paid Acq) / Python, SQL 9/18-12/18

- Used ML to model and optimize Paid Acquisition Channels. Improved Job Boards channel efficiency by 10%.
- Wrote Python scripts to forecast acquisition spend based on current performance metrics. Displayed in org-wide dashboards.

**facebook / Software Engineering Intern** (Privacy & Security Infra) / Haskell, Hack, Python, SQL 6/18-9/18

- Developed E2E Anti Scraping framework for understanding, detecting, and preventing bad actors at the data model layer.
- Rewrote feature collection pipeline to collect high fidelity scraping data. Integrated w/ ML to improve accuracy by 4+%.
- Optimized read/write performance at big data scale by over 5 million QPS across Facebook stack.

**facebook / Software Engineering Intern** (Audio 360) / C, C++, Python, JS, libuv 6/17-9/17

- Developed full-fledged audio plugin framework using a rich stack: a custom lightweight C++ server with a React UI.

**CISCO / Software Engineering Intern** (Cisco UCS) / JS 6/16-9/16

- Used JS to develop 30+ UX features for UCS Director, delivering IaaS management software for data centers.

**UCSD CSE Department / CSE Tutor** 4/18-6/19

- CSE 15L (Unix Lab), CSE110 (Software Engineering) - Prof. Gillespie. Mentored students. Designed and created technical labs.

## SELECT PROJECTS

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**Song Snip / Python, ffmpeg, Flask, Firebase, ES** 2/21-PRES

- Created web app which allows users to search for music clips via auto-complete to augment online communication.
- Built on top of Flask + Docker + React + Nginx + Heroku Infra, for scale.

**PERCEPT / Google GlassJava), Node, Firebase** 4/18-6/18

- Crafted Augmented Reality application via Google Glass and Arduino to present Emergency Room patient profiles.

## SKILLS

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**Languages:** Python, Golang, PHP/Hack, C/ C++, Java, Haskell, Proto3

**Data/Networking:** SQL, Flask, Firebase, ElasticSearch, Pandas, Nginx, DynamoDB

**Web:** HTML/CSS/JS, React, ExtJS, Node.JS

**Android:** Unity, Google Glass, Native Dev