

# Sriranjan Sribhashyam

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## TECHNICAL SKILLS

**Languages & Frameworks:** SQL, Python, JavaScript & Typescript with Node.js, Next.js, Golang, Rust

**Domain:** User KYC fraud, Compliance Engineering, Card Declines & Chargebacks

**DevOps:** SemaphoreCI & GitHub Actions, RabbitMQ, Bazel, Docker, AWS SAA Certified (SAAC02)

**Data Management:** pandas & dask, dbt, Snowflake, FiveTran, PostgreSQL, ORMs (TypeORM, Prisma)

**Data Science:** ML with XGBoost, RAGs for LLM's, Retool (Internal Dashboarding)

## EXPERIENCE

### Software Engineer

Feb 2021 – Present

*ChipperCash*

*Los Angeles, USA*

- Collaborated with PMs and Marketing to build a full-stack in-app messaging system, spanning React Native screens in the Mobile App, to backend APIs with Typescript - thereby saving ~\$80k/year by phasing out vendors.
- Developed a risk heuristic using XGBoost and a Python ETL data pipeline, thereby identifying high-risk users during onboarding which cut referral fraud by 60% and saved \$350k.
- Optimized Bazel builds by adding requirements.txt lockfiles, reducing build sizes by ~23% and enhancing reproducibility.
- Created a ML model to forecast chargeback likelihood on card deposits, using transaction velocity and previous chargeback history as key features, effectively blocking ~\$1.5M in high-risk deposits.
- Worked with MLROs to revamp watchlist screening using a faster, open-source alternative - thereby reducing false positives from 75% to 20% and saving about \$200k/month.
- Devised a Python pipeline using dask and dbt, capable of automatically declining up to 100 eligible chargebacks per minute, thereby saving 3 minutes of manual labor per chargeback and preventing losses of ~\$4M.

### Data Engineer

May 2020 – Dec 2020

*Data Sleek*

*Los Angeles, USA*

- Collaborated with 5+ clients to design, translate and implement business requirements into a technical spec.
- Delivered SQL stored procedures that perform analytical queries to detect and alert customers for changes in desired metrics, saving up to 20% of the base cost per item.
- Performed benchmark tests for several SingleStore configurations to determine optimal configuration for Time Series data, saving \$475/year while improving performance by 400%.

### Software Engineer Intern

May 2018 – July 2018

*Samsung Research*

*Bengaluru, India*

- Set up Open Network Automation Platform on a local server on top of Openstack, using docker containers, laying the foundation for dynamically scalable ML applications based on resource requirements.
- Upgraded the ETL pipeline by deploying to Apache Kafka for streaming data to the microservice.

## EDUCATION

### University of California, Los Angeles

Sep 2019 – Dec 2020

*Masters of Science in Business Analytics*

*Los Angeles, USA*

### College of Engineering Guindy

Jul 2015 – May 2019

*B.S. Computer Science & Engineering*

*Chennai, India*

## PROJECTS

### Youtube Video Search | *Python, OpenAI, Next.js, PostgreSQL, Typescript*

[github.com/youtube-search](https://github.com/ranjan31051997/youtube-search)

- Created a website that video-searched podcasts of a popular YouTube channel. Converted raw data into audio and transcribed it using whisper.cpp.
- Used pgvector to store and query embeddings, and generated context summary with gpt-3.5-turbo.

### MyAnimeList CLI | *Rust*

[github.com/mal](https://github.com/ranjan31051997/mal)

- Created an interactive CLI client in Rust to list anime based on a user's profile.
- Display detailed information regarding a show by parsing API.