

# Sriranjan Sribhashyam

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## TECHNICAL SKILLS

**Languages & Frameworks:** Python, Javascript & Typescript with NodeJS, NextJS, Tailwind CSS & React  
**Domain:** User KYC fraud, Compliance Engineering, Card Declines & Chargebacks  
**DevOps:** SemaphoreCI & Github Actions, RabbitMQ, Bazel builds, docker, AWS SAA Certified (SAAC02)  
**Data Mangagement:** pandas & dask, Snowflake, PostgreSQL, dbt, ORM's (TypeORM, SQLAlchemy, Prisma)  
**Data Science:** Machine Learning with XGBoost, RAG's for LLM's, Retool Dashboarding

## EXPERIENCE

### Software Engineer

Feb 2021 – Present

*ChipperCash*

*Los Angeles / Remote*

- Collaborated with PMs and Marketing to build a full-stack in-app messaging system, from React Native mobile features to Typescript backend APIs, achieving <1s user communication latency and saving \$80k by replacing external vendors.
- Developed a XGBoost-based ML pipeline that cut referral fraud by 60% and saved \$350k, identifying high-risk users for Enhanced Due Diligence during onboarding.
- Devised a Python pipeline with dask & dbt to de-activate Virtual Cards for users with repeated declines & negative contribution margin, preventing the decline fees from racking up.
- Created a machine learning 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 approximately \$40 million.

### Data Engineer Intern

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 MemSQL 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

Los Angeles, USA

*Masters of Science in Business Analytics*

*Sep 2019 – Dec 2020*

### College of Engineering Guindy

Chennai, India

*BS. Computer Science & Engineering*

*Jul 2015 – May 2019*

## PROJECTS

### Youtube Video Search | *Python, OpenAI, NextJS, PostgreSQL, Typescript*

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

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