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: Machine Learning 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 XGBoost-based Python pipeline that cut referral fraud by 60% and saved $350k, identifying high-risk users for Enhanced Due Diligence during onboarding.
- Optimized Bazel builds by adding requirements.txt lockfiles, reducing build sizes by ∼23% and enhancing reproducibility.
- 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 ∼$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

- 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

- 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.