

# Sriranjan Sribhashyam

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## SUMMARY

I am a Backend Software Engineer with 3.5 years of experience in building microservices & data-pipelines using Python (Flask) & TypeScript (Node.js). I am eligible for a **2 year visa**.

## TECHNICAL SKILLS

**Languages & Frameworks:** Python, TypeScript, Next.js, Rust  
**API Development:** Flask, Express (REST APIs)  
**DevOps:** RabbitMQ, Bazel, Docker, CI/CD (SemaphoreCI & GitHub Actions),  
**Data Management:** SQL, PostgreSQL, TypeORM, Prisma  
**Certifications:** AWS SAA Certified (SAAC02)

## EXPERIENCE

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|---|---|
| <b>Software Engineer</b><br><i>ChipperCash</i>  | Feb 2021 – Present<br><i>Los Angeles, USA</i>   |
| <ul style="list-style-type: none"><li>Collaborated with PMs and Marketing to build a full-stack in-app messaging system, spanning React Native screens in the Mobile App, to backend REST APIs with TypeScript - thereby saving ~\$80k/year by phasing out vendors.</li><li>Deployed a ML model for inference as a microservice using Flask API's and docker, served over RabbitMQ to predict chargeback probability and thereby block high-risk deposits worth ~\$1.5M.</li><li>Improved Python ETL pipeline builds in Bazel by adding requirements.txt lockfiles, cutting build times by ~23%.</li><li>Leveraged Docker and blue-green deployments for microservices to migrate existing user screening to an open-source solution with 0 downtime, saving about \$200k/month.</li><li>Devised a Python data pipeline that declined up to 100 chargebacks per minute, thereby saving 200 hours of manual labor and preventing potential losses of ~\$4M.</li><li>Architected an event-driven system for bulk push notifications across iOS and Android platforms utilizing RabbitMQ and Firebase Topics, enabling communication with over 10M users within minutes.</li></ul> |   |
| <b>Data Engineer</b><br><i>Data Sleek</i>   | May 2020 – Dec 2020<br><i>Los Angeles, USA</i>  |
| <ul style="list-style-type: none"><li>Collaborated with 5+ clients to design, translate and implement business requirements into a technical spec.</li><li>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.</li><li>Performed benchmark tests for several SingleStore configurations to determine optimal configuration for Time Series data, saving \$475/year while improving performance by 400%.</li></ul>   |   |
| <b>Software Engineer Intern</b><br><i>Samsung Research</i>  | May 2018 – July 2018<br><i>Bengaluru, India</i> |
| <ul style="list-style-type: none"><li>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.</li><li>Upgraded the ETL pipeline by deploying to Apache Kafka for streaming data to the microservice.</li></ul>   |   |

## EDUCATION

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|---|--|
| <b>University of California, Los Angeles</b><br><i>Masters of Science in Business Analytics</i> | Sep 2019 – Dec 2020<br><i>Los Angeles, USA</i> |
| <b>College of Engineering Guindy</b><br><i>B.S. Computer Science &amp; Engineering</i>          | Jul 2015 – May 2019<br><i>Chennai, India</i>   |

## PROJECTS

- Youtube Video Search** | *Python, OpenAI, Next.js, 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 an interactive CLI client in Rust to list anime based on a user's profile.
  - Display detailed information regarding a show by parsing .