Sai **Praneeth**

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Experience

Slice
SENIOR SOFTWARE ENGINEER

Bangalore

June 22 - Present

- Architected and implemented DaaS (Data as a Service) platform managing **10TB+** data across organization, reducing data access TAT from **3 days to <5 min** while ensuring SOC2 compliance.
- Led development of in-house UPI PAYMENT SWITCH processing **5M+** daily upi transactions.
- Single-handedly deployed **multi-region on-premises HSM** (Hardware Security Module) solution for UPI MPIN management, ensuring high availability, disaster recovery.
- Engineered a memory-efficient UPI VPA blacklist feature using a bloom filter to enhance fraud prevention measures.
- Single-handedly developed Sanction Screening Service, preventing fraud by screening against **100+** global sanction lists.
- Single-handedly created the first iteration of the Avatar service, enabling **real-time** generation of **personalised profile avatars** from user selfies.
- Refactored legacy risk assessment service, evaluating **100+** factors, making it **10x** faster (20sec to <2sec).
- Designed and deployed an AWS **Lambda-based NameMatch** service to compare names across multiple sources, detecting fraudulent patterns and resolving inconsistencies within multiple services, This solution reduced customer onboarding errors by **10%**.
- Integrated Sentry, APM, and VictoriaMetrics for observability, enhancing monitoring and diagnostics.

Swiggy(SuprDaily)
SOFTWARE ENGINEER

Bangalore

Sep 21 - June 22

- Integrated with Algolia's personalization to customize item displays and ranking based on customer interaction history, resulting in a **40%+ increase in CTR**.
- Improved the pricing system to resolve price inconsistencies across various pages, enhancing user experience by maintaining **uniform pricing** throughout the app, through cross-functional collaboration with multiple teams.
- Implemented regional best-seller features with real-time SKU updates, resulting in **70%** of these items being added to carts.

Hyperverge
SOFTWARE ENGINEER

Bangalore

Dec 19 - Sep 21

- Led architectural transformation from **monolith to microservices**, resulting in **60%** throughput improvement through optimized service boundaries and inter-service communication.
- **Containerized** application using Docker and implemented CI/CD pipelines, reducing deployment time from hours to minutes.
- Architected ML model deployment pipeline using S3 and versioning, decoupling model artifacts from application code and enabling seamless model updates without code change.
- Owned the end-to-end design and development of a document verification service, including data processing, extraction and validation, handling **50+RPS**
- Engineered a solution for **ID card assessment and categorization**, facilitating the identification of card types and the application of suitable ML models for verification.
- Implemented **end-to-end encryption** system for secure cross-border data transfer using asymmetric encryption and key rotation.
- Engineered a region-agnostic PII masking solution to automatically obfuscate ID numbers on ID cards.

Projects

SOS Accident System

Engineered an accident detection system utilizing Raspberry Pi that automatically **detects crashes**, triggers a backend to identify the nearest available ambulance services using the Google Places API, and simultaneously sends detailed location information via **SMS alerts** to both the ambulance and victim's family members, facilitating a quick emergency response.

Games Developed

Built a **real-time multiplayer** shooting game using UDP sockets for low-latency multiplayer interactions and a custom game engine with pygame.

Skills

Languages	Java, Golang, Python, Node, TypeScript
Frameworks	Spring Boot, Gin, FastAPI, Django, Flask, Express, Fastify, NestJS
Technologies & Tools	AWS, Docker, Kubernetes, Postgres, MySQL, Redis, MongoDB, Elasticsearch, Kafka, Git, Linux, ArgoCD, Grafana, Prometheus, Micrometer, VictoriaMetrics
Testing & Automation	PyTest, Selenium, puppeteer, Mocha, JUnit
Core Competencies	Data Structures & Algorithms, Microservices Architecture, Distributed Systems, Object Oriented Design, Database-Design, SQL, NoSQL, REST, gRPC

Education

Vellore Institute Of Technology
B.TECH COMPUTER SCIENCE | **8.13**/10

Vellore

2016-2020