Sai **Praneeth**

SOFTWARE DEVELOPMENT ENGINEER

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Skills

Languages	Java, Go, Python, Node.js, TypeScript
Tools/Frameworks	AWS, Docker, Kubernetes, Postgres, Redis, MongoDB, Kafka, Gin, Flask, FastAPI, Django, Spring Boot, NestJS, Express, PyTest, Selenium, Mocha, Grafana, Linux

Experience

Slice *Bangalore, KA*

SENIOR SOFTWARE DEVELOPMENT ENGINEER *May 22 - Present*

- Built DaaS(Data as a Service) that manages and serves data across multiple organizations, ensuring security and auditing measures are in place. Reduced TAT from 3 man-days to under 5 minutes. Supports PostgreSQL, MySQL, DBX warehouse, and async warehouse queries (on EMR using Airflow) data sources.
- Built UPI SWITCH in collaboration with five-member team, Led the migration process from Juspay Switch to an in-house solution, As a upi first company this helped deliver UPI features faster to our customers, reducing costs and dependency on Juspay.
- Integrated Mandates, upi-number, with npci on both bank and acquring side.
- Deployed an on-premises Luna HSM and integrated for UPI MPIN management.
- Built Sanction Screening Service that scrapes and enables search functionality on public lists of sanctioned individuals, ensuring compliance by preventing the onboarding of sanctioned persons.
- Developed the initial version of the Avatar service, which generates personalized avatars as profile pictures in real-time based on user selfies.
- Developed a centralized NameMatch Lambda service that compares names from various sources to identify potential fraudsters. This solution addressed inconsistencies where some services would pass names that others would fail to recognize.
- Refactored a legacy risk service that evaluates a user's purchasing power based on more than 100 factors.
- Increased observability by integrating Sentry, APM, Xray, SonarQube, Swagger, and pre-commit hooks across multiple services.

Swiggy(SuprDaily) *Bangalore, KA*

SOFTWARE DEVELOPMENT ENGINEER *Sep 21 - June 22*

- Integrated Algolia personalization to display items based on customer prior activity, increasing CTA by more than 40%.
- Enhanced the pricing platform to eliminate discrepancies across different pages within the same session, resulting in a better user experience by ensuring consistent pricing across the app.
- Developed features that display best-selling items based on the region, with dynamically updated SKUs. 70% of these SKUs were added to cart.

Hyperverge Inc. *Bangalore, KA*

SOFTWARE DEVELOPMENT ENGINEER *Dec 19 - Sep 21*

- Improved overall throughput by 60% by splitting monolith into microservices.
- Used tools like sentry, opentelemetry as well as set up test environment to reduce 5xx error rates to almost zero.
- Implemented a feature to retrieve machine learning models from S3 instead of committing them to Git, significantly reducing the effort required from the engineering team.
- Developed a comprehensive end-to-end service from scratch to blacklist devices involved in multiple fraud attempts, effectively preventing further malicious activities.
- Contributed and gained expertise in developing various components of document verification service, which analyzes and retrieves data. Built it from initial stages from defining the requirements to completion of deployment.
- Designed and developed end-to-end fully functional service which categorizes ID cards based on their quality into different buckets. Focused on various service aspects like scale and configurable design.
- Implemented an API to prevent data theft by encrypting customer data for transfer across geographies, which is only decrypted on the receiver's side.
- Developed a feature to mask user identification numbers on national cards, making the solution region-agnostic.
- Dockerised application which made operations easy.
- Built an API to validate user inputs against data from uploaded ID cards, handling various types of information.

Projects

AUTOMATICALLY CALLING NEARBY AMBULANCE SERVICE INCASE OF ACCIDENT(IOT)

- Developed a service using Raspberry Pi that calls an ambulance when an accident is detected. The system retrieves the vehicle's coordinates and passes them to the server.
- Utilized Google Place API to retrieve the phone numbers of nearby ambulance services.
- Used SMS-Gatewayhub to message the coordinates of the accident location to ambulance services, achieving a total TAT of less than a second.

GAMES DEVELOPED

- Created games such as Snake, Pong, Bomber Man, and Minesweeper using Pygame (Python).
- Developed an endless-run game using Unity and C.
- Developed a multiplayer shooting game using a UDP socket connection in Python and Pygame for the GUI, maintaining game state on the client-side which allows backend code to remain flexible and easily adaptable to multiple games.

TIMING ATTACKS ON RSA

- Analyzed the effectiveness of timing attacks in cracking the keys of RSA-secured systems, highlighting vulnerabilities in the RSA algorithm.

HOSTED A SITE - CHECKMETER

- Hosted a website using Flask where each user receives a custom link upon signing up. This link can be shared with friends, who can then ask questions anonymously and view the user's responses.

STUDENT ATTENDANCE MANAGEMENT SYSTEM

- Developed student attendance management system using Node.js, HTML, CSS, and JavaScript to streamline and automate attendance tracking for educational institutions.

Education

Vellore Institute Of Technology   *Vellore*

B.TECH. | **CGPA 8.13/10**   *2016-2020*