

Kampelly Pranith

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EDUCATION

- **Indian Institute of Technology Guwahati** Guwahati, India
Bachelor of Engineering in Electronics and Communication *June. 2015 – May. 2019*

EXPERIENCE

- **Tanla Platforms** Hyderabad, India
Software Development Engineer III (Backend) *May 2025 - current*
 - **IOS Live Caller ID Service:**
 - Built the iOS Live Caller ID Service to provide real-time spam/scam detection for incoming calls on Apple devices as part of it implemented multiple services.
 - Implemented **Privacy Pass service (RFC 9578)** using Blind RSA for anonymous, privacy-preserving authentication.
 - Developed an **Oblivious HTTP (OHTTP) gateway service** to enable privacy-preserving request routing.
 - Implemented **Private Information Retrieval (PIR) using Homomorphic Encryption**, allowing secure querying of encrypted datasets without exposing user data.
- **FinBox** Bangalore, India
Senior Software Engineer (Backend) *April 2024 - May 2025*
 - **Temporal State Machine:**
 - Led the development of a state machine system that revolutionized user journey management by transforming FinBox's linear workflows into dynamic, condition-based pathways.
 - Architected a serverless JSON-based workflow engine that consolidated 15+ client configurations into a unified system, significantly reducing complexity and maintenance overhead.
 - Designed interoperability between UI and API flows, allowing seamless transitions at any point in the customer journey.
 - Developed a no-code, drag-and-drop dashboard enabling implementation managers to configure workflows independently.
 - Mentored engineering teams on Temporal State Machine implementation and migration strategies, leading to the successful onboarding of 4 major clients into production.
 - **DataDancer (Supermoney):** - Designed and implemented an enterprise-grade system enabling custom request/response modifications through configuration rather than code, significantly reducing development time for client-specific requirements.
 - Architected a flexible framework supporting encryption, JQ payload transformations, digital signatures, and custom authentication mechanisms for high-security enterprise clients.
 - Created a configurable routing system allowing rapid implementation of custom endpoints without code changes, accelerating client onboarding and reducing engineering overhead.
 - **Security Infrastructure:**
 - Established M-TLS connectivity between Finbox and major banking partners, ensuring secure, authenticated communication channels for sensitive financial transactions.
 - Implemented robust security protocols meeting stringent compliance requirements of financial institutions.
- **Razorpay** Bangalore, India
Senior Software Engineer (Backend) *March 2021 - April 2024*
 - **Role:** Led and collaborated on five major projects, spearheading the development of four platform services and playing a pivotal role in team building.
 - **Mentoring:** Guided and mentored over six junior engineers to ensure swift and efficient onboarding. Additionally, provided mentorship to freshers from prestigious institutions such as IITs, NITs, and BITs during bootcamps, resulting in successful project executions in both 2020 and 2021.
 - **Team Building and Solutioning:** Improved Dev productivity by guidance on best practices and coding techniques. Contributed significantly to the architecture design of complex software systems, ensuring scalability and maintainability.

- **Dynamic Configuration service:** Enhanced software performance by identifying and resolving bottlenecks in the code, resulting in services capable of handling over 5,000 requests per second. Successfully reduced platform service read latencies to single digits by implementing advanced tools and concepts such as GRPC, ProtoBufs, in-memory databases like Redis, JWT tokens, and Authz roles for seamless authorizations.
- **Fulcrum(Card Acquiring Switch):** Designed and implemented a scalable, configuration-driven system for easy onboarding of new card networks and flows. Developed a specialized library for handling asynchronous requests on TCP connections with a focus on keep-alive mechanisms.
- **File Generation Service:** Managed project end-to-end from gathering functional and non-functional requirements from consumers to building service that effectively addressed those needs
- **Integrations Platform(Present):** It is a Platform service built to handle all external integrations with banks or gateways. Built a Workflow engine that executes the workflows independently which brings in the flexibility of code testing in Golang and this reduced the integration time by 80% and latency by 100ms

• Razorpay

Bangalore, India

Software Development Engineer (Backend)

June 2019 - March 2021

- **Gateway migration:** Migrated a gateway to a new microservice as part of Razorpay's integration with various payment gateways, including UPI Axis. Pioneered the migration to Golang, marking a significant technological shift.
- **International 3DS authentication:** Led the repositioning of risk score checks in 3DS International Authentication, managing the entire process from technical specification to implementation, testing, production deployment, and monitoring. Successfully adapted to multiple authentication statuses, implementing distinct handling approaches. This increased the overall success rate by 4% for international transactions
- **PaperNach:** Spearheaded the integration of PaperNach, a novel payment acceptance method for Razorpay PG, a kin to Emandate. Managed gateway integration and file generation, facilitating extensive discussions with banks and the RZP banking team. Executed the project through end-to-end testing for seamless functionality. Recently this has reached as high as 50 Lakh transactions on a peak day

PROJECTS

- **MPOS:** Enabling Tap and Pay with a mobile phone, I have built an app by using open-source libraries by using Razorpay service to complete the payment process as a proof of concept for the project. Provided the demo to all the stakeholders including the Director and co-founder.
- **Barricade:** Built a service that detects bugs and money leaks in the payments gateway system as Part of the 3-day Hackathon 2022 with the help of a couple of team members for which we won 1st prize in the hackathon. Now it is completely handled by a 4 member team which helps in identifying bugs proactively rather than reactively.

PROGRAMMING SKILLS

- **Languages:** Golang, PHP, PostgreSQL, MySQL
- **Technologies:** AWS, Redis, RabbitMQ, Temporal, Serverless specifications, gRPC, TCP, Kubernetes, Docker, Git, SQS, k8s