

ARYAN GUPTA

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Experience

FinBox

Jun 2024 – Present

Software Engineer - Backend

Bangalore, India

- Contributed and maintained credit lending infrastructure for Loan Origination System (**LOS**) product, facilitating **100 Cr+ in loan disbursements** across multiple loan products with high-volume transaction processing using **Go** and **PostgreSQL**
- Developed **FinBox Studio**, a low-code journey development service enabling implementation teams to create and manage lending workflows with drag-and-drop interface using **Serverless Workflow SDK** and **Temporal** for config-driven business flows, reducing development time by **60%** and accelerating deployment cycles
- Built **Disposable Dev**, an internal tool automating on-demand DEV/UAT environments using **Kubernetes**, **Helm**, **Docker**, **Nginx**, and **GitHub Actions** with support for custom DB snapshots, custom domains, branch-based deployments, and pre/post setup hooks to boost developer productivity
- Contributed and developed **Firefly**, a resilient centralized webhook delivery service for multiple internal products using **AWS SQS** with configurable retry mechanism managed via **AWS EventBridge**, ensuring reliable message delivery
- Engineered and maintained in-house **API virtualization service** enabling comprehensive testing of external APIs with support for polling responses and webhook functionality, improving testing coverage by **80%** and reducing production bugs
- Built **Pickle**, a multi-tenant centralized config management service with fine-grained Role-Based Access Control using **gRPC**, supporting versioning, rollback capabilities, and zero-downtime configuration updates across distributed systems
- Implemented **Vendor Switch** - a runtime vendor selection system dynamically identifying optimal service vendors based on performance metrics including latency, success rates, and cost efficiency, improving overall system reliability by **25%**
- Architected a **generic log push pipeline** ingesting structured log/event data into **ClickHouse** via **Kafka** and **Vector**, achieving significant storage cost savings

Amazon

May 2023 – Jul 2023

Software Development Engineer Intern

Bangalore, India

- Contributed to **SPARTA** (Unified Risk Evaluation Systems), multi-tenant low-latency scalable systems responsible for risk evaluation across internal platforms
- Developed automated risk-case onboarding system called Journey Planner, reducing onboarding time by **40%** via automation of initial steps, streamlining workflow configuration and validation processes
- Created full-stack solution using **React** and **JSX** for user interface with corresponding internal APIs in **Spring Boot**, maintaining greater than **90%** code coverage through comprehensive unit testing and integration tests

Projects

Zorents: Rental Tech App – Full-stack rental ecosystem using **React Native** and **Go** with third-party integrations for identity verification, payment processing, and real-time inventory management

KPIT Sparkle: Connected Vehicles Simulation Tool – Customizable platoon simulation using **OMNeT++** for V2X communication and **Eclipse SUMO**; top 24 national finalist among 1300+ teams

Technical Skills

Languages & Frameworks: Go, Java (Spring Boot), Python, C/C++, JavaScript, SQL, Chi, Fiber, Flask, React

Databases & Cloud: PostgreSQL, DynamoDB, ClickHouse, MySQL, Redis, AWS (SQS, S3, EC2, RDS, ALB), Kubernetes, Docker

Platform & Tooling: Temporal, Kafka, gRPC, OpenTelemetry, Prometheus, Grafana, Git, **Cursor**, **Claude**, **GitHub Copilot**

Awards & Achievements

Competitive Programming: Country rank #182 in International Coding Marathon 2021 on CodeChef; Consistent top 50 finish in boAt's Online Quizzing Festival among 1000+ participants

Leadership & Team Management: Led technology initiatives and managed cross-functional teams with budget oversight of INR 5,00,000+. Organized technical workshops and mentorship programs for 1000+ participants, demonstrating strong project management and communication skills

Education

Indian Institute of Technology, Kharagpur

2020 – 2024

B.Tech in Chemical Engineering, Minor in Computer Science & Engineering, Mathematics & Computing

CGPA: 8.82/10.0