

Priyank Rupareliya

+91 9586642012 | mail.rpriyank@gmail.com | [Medium](#) | [LinkedIn](#)

ABOUT

Senior Software Engineer with a focus on distributed systems, high-throughput database architecture, and infrastructure automation. I specialize in modernizing legacy monoliths into scalable cloud-native environments and leading cross-functional teams to deliver high-availability products. Pragmatic advocate for clean system design and open-source contributor.

EXPERIENCE

Software Engineering Specialist

AT&T

September 2024 – Present

Bengaluru, Karnataka

- Designed the architecture for the modernization of the 30-year-old Global Fraud Management System (GFMS), replacing legacy silos with a high-performance stack using FastAPI, PostgreSQL 18.0, and AKS.
- Reduced query latency by **40%** for a system handling **200k+ requests/hour** by implementing a proactive caching strategy with PostgreSQL and Procrastinate, ensuring sub-second response times.
- Improved system stability and reliability to **99.9% uptime** by integrating a multi-service observability layer with OpenTelemetry, enabling proactive bottleneck identification before they impacted users.
- Cut annual infrastructure costs by **\$50k+** by migrating the observability layer from Azure Application Insights to a self-managed ELK stack.
- Led a team of 9 engineers through technical mentorship and the review of **2,000+ PRs**, establishing organization-wide standards for API design and IaC reliability.
- Created framework-agnostic archetypes for React and Python that were adopted by **100+ internal projects**, reducing initial setup time for new services by 50%.

Technical Consultant III

Hewlett Packard Enterprise (HPE)

August 2022 – August 2024

Bengaluru, Karnataka

- Built the Civil Registration System (CRS) for the Government of India, scaling to support **1 million+ concurrent daily users** across 13 states using an event-driven microservices architecture.
- Reduced production incident rates by **25%** by implementing automated integration testing and health-check monitoring across serverless AWS/Azure environments.
- Boosted developer velocity by **30%** through the creation of reusable libraries for React (JSON rendering) and AWS Cognito, streamlining authentication workflows for internal apps.
- Mentored 15 engineers through weekly system design drills and pair-programming, successfully transitioning the team from monolithic to cloud-native development practices.
- Designed an internal "Innovation Portal" knowledge-sharing tool that scaled to support **30k+ daily internal users**, improving cross-departmental information flow.

Systems Engineer

ITsecura

April 2021 – August 2022

Bengaluru, Karnataka

- Automated 60% of fleet-wide admin operations (LVM, firewalls, scans) using SaltStack and Python, significantly reducing manual intervention and human error during server maintenance.
- Maintained **99.9% uptime** for compliance tools by tuning configurations for HAProxy, Tomcat, and Percona MySQL high-availability stacks.
- Contributed upstream bug fixes to the SaltStack community on GitHub, improving configuration management stability for the broader open-source ecosystem.

Fullstack Engineer

NalyticX

June 2020 – December 2020

Ahmedabad, India

- Developed and iterated on rapid prototypes for early-stage products using the MERN stack, managing the full SDLC from database schema design to frontend deployment.

TOP PROJECTS

Global Fraud Management System (GFMS) Modernization | *FastAPI, PostgreSQL, Event Hubs, Procrastinate, AKS*

- Led the full-scale architectural overhaul of a 30-year legacy system. Optimized data ingestion by implementing index-first joins and strategic partitioning, resulting in a significant reduction in CPU overhead during peak traffic.

AskAT&T (GenAI Knowledge Retrieval) | *LLMs, Python, TDP AI Challenge*

- Developed an AI-driven problem-solving solution as part of the TDP AI Challenge. Engineered a system to automate internal knowledge retrieval, enhancing developer productivity by reducing time spent searching technical documentation.

HPC Containerization Research | *MPI, Docker, Hypervisors*

- Achieved near-native performance for High-Performance Computing (HPC) workloads by developing a method to dynamically link image-specific MPI libraries with hardware drivers. Published findings on the [HPE Community Blog](#).

TECHNICAL SKILLS

Frameworks and Tools: Python FastAPI, Node.js, Express, React.js, PostgreSQL, NoSQL, DynamoDB, SQS, Azure Event Hub, AWS Serverless, OpenTelemetry (OTEL), Docker, Jenkins, Redis, Git, Nginx

Infrastructure and OS: Linux RHEL, Ubuntu, Windows Server, Azure Kubernetes Service (AKS), ArgoCD, SaltStack

Core: Distributed Systems, Data Structures and Algorithms, System Design, Network Topology, TDD, Agile

INTERPERSONAL SKILLS

Critical thinking, precise communication, cross-functional collaboration, accountability, flexibility, time management, and complex problem-solving.

CERTIFICATIONS

AWS Certified Developer Associate | *Amazon Web Services* 2023

Docker Mastery | *Kubernetes, Swarm, Compose* 2022

Learning Salt by Packt | *Infrastructure as Code* 2021

EDUCATION

Marwadi University Gujarat, India
Bachelor of Computer Applications 2017 – 2020