

Amara Manoj NagaSai Venkat

Software Engineer – Backend & Reliability

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Portfolio

PROFESSIONAL SUMMARY

I'm a backend software engineer with 2 years of experience building and maintaining payment and telecom platform services. I work extensively with Node.js, Express, React, SQL, and use tools like Grafana to monitor and optimize application performance. I focus on delivering reliable backend services, improving API responsiveness, and ensuring smooth production deployments. I enjoy taking features from development to production, collaborating closely with cross-functional teams, and building systems that handle high transaction volumes efficiently and reliably.

TECHNICAL SKILLS

Backend & Application Development: Node.js, Express, React, JavaScript, REST APIs, Microservices, Workflow Automation

Databases & Caching: MySQL, Redis, Database Design, Query Optimization

Cloud & DevOps: AWS (EC2, S3), Docker, Kubernetes, CI/CD Pipelines, Containerized Deployments

Monitoring & Observability: Grafana, Logging, Performance Metrics, Production Issue Tracking

Practices & Methodologies: End-to-end Feature Development, Automation, Scalability, Performance Optimization, Production Support

WORK EXPERIENCE

Product Development Engineer — Comviva, Bangalore — Aug 2023 – Present

- Led backend development for telecom wallets and payment platforms using Node.js & Express, improving **API response times by 30%** and supporting high-volume transactions.
- Built and validated end-to-end application workflows, reducing operational errors and ensuring seamless production deployments.
- Implemented performance optimizations and monitoring solutions, resolving **95% of production incidents within SLA** and cutting downtime by 25%.
- Delivered **NRT 2.0 and ACS Checkout** features for African markets, ensuring scalable, reliable, and user-friendly deployments.

Product Development Intern — Comviva, Bangalore — Feb 2023 – Aug 2023

- Developed backend modules and APIs using Node.js, ensuring data consistency, reliability, and seamless frontend integration.
- Designed Grafana dashboards to monitor application metrics, transaction errors, and throughput, enabling faster incident resolution.
- Assisted in production issue resolution and performed root cause analysis, improving overall system reliability.
- Supported deployment of new features for telecom wallets and mobile payment platforms, validating backend workflows to minimize post-release issues.

PROJECTS

Mobile Payments Platform — Airtel (African Opcos)

NRT 2.0 (African Markets)

- Developed and integrated backend services with third-party APIs using Node.js & Express, streamlining telecom wallet workflows and increasing transaction reliability.
- Spearheaded end-to-end feature delivery with a focus on scalability and fault tolerance, ensuring smooth operation during peak African market traffic.
- Implemented robust error handling, fallback mechanisms, and end-to-end validation for high-volume transactions.
- Collaborated with cross-functional teams to deploy features with zero post-release incidents.

ACS Checkout (African Markets)

- Delivered hybrid wallet and micro-loan integration features, validating backend workflows and ensuring smooth production rollout.
- Streamlined checkout workflows to enhance user experience and transactional efficiency, boosting adoption in African markets.
- Optimized API response times and reduced latency in core services, improving overall platform performance.
- Coordinated with QA and product teams to deliver scalable, reliable feature releases.

Accelerated API Testing & Validation Platform A web-based automation tool designed to reduce API testing cycles by executing hundreds of test cases from Excel and analyzing results via an interactive dashboard.

- Architected an end-to-end test automation solution using Node.js (backend with Express) and React (frontend), reducing testing and debugging time by **40%**.
- Replaced manual API testing (Postman) with an automated, Excel-driven workflow for comprehensive regression tests.
- Implemented a high-performance Node.js backend for real-time API orchestration and server log validation.
- Designed an in-memory caching system for logs and a dynamic React dashboard with filtering, report downloads, and integrated log viewer.
- Streamlined developer debugging with a "one-click retest" feature, accelerating issue resolution.

EDUCATION

B.Tech – Computer Science and Engineering
CGPA: 8.21

K L University
2019 – 2023

ACHIEVEMENTS & AWARDS

- Best Employee Award (Comviva + Client) for exceptional reliability and consistent delivery in high-pressure production environment.
- Multiple ACE Cards for ownership, teamwork, and leadership in cross-functional projects.