SAI RAM GOTTIPATI

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PROFESSIONAL SUMMARY

Senior Full Stack Software Engineer (M.S. in Computer Science) with 5+ years of experience building and scaling production SaaS platforms. Proven expertise across React-based frontend systems and high-throughput Node.js/Python backend services, with hands-on ownership of distributed APIs, real-time systems, database migrations, and cloud infrastructure. Strong track record of improving frontend performance (45% TTI reduction), backend reliability (99.9% uptime at 20k+ RPS), and operational visibility through observability-first system design on AWS.

CORE TECHNICAL SKILLS

Full Stack & Frontend: TypeScript, JavaScript (ES6+), React, Next.js, Redux Toolkit, Tailwind CSS, HTML5/CSS3, Code Splitting, Performance Optimization, State Management
Backend & APIs: Node.js, Python, FastAPI, Django, REST APIs, GraphQL, WebSockets, gRPC, OpenAPI/Swagger
Infrastructure & Cloud: AWS (EC2, S3, RDS, EKS/Kubernetes), Terraform (IaC), Docker, GitHub Actions, CI/CD Pipelines
Data, Performance & Observability: PostgreSQL, MySQL, Redis (Lua Scripting, Pub/Sub), Prometheus, Grafana, CloudWatch, ELK Stack, Sentry
Engineering Practices: System Design, Distributed Systems, TDD, Agile/Scrum, High-Availability Architecture

PROFESSIONAL EXPERIENCE

Orion Path Technologies LLC | Full Stack Developer | Aug 2024 – Present

• Owned end-to-end development of product features across frontend (React) and backend (Node.js) for a multi-tenant SaaS platform.
• Refactored the Critical Rendering Path using React code-splitting and optimized state management, reducing Time-to-Interactive (TTI) by 45% and improving Core Web Vitals.
• Designed and implemented a distributed rate-limiting system using Redis Lua scripting, protecting customer-facing APIs and sustaining 99.9% uptime during traffic surges of ~20k RPS.
• Automated multi-region cloud infrastructure using Terraform (modular IaC, state locking), reducing environment setup time by 90% and eliminating configuration drift.
• Implemented security controls, including JWT-based RBAC and field-level encryption to meet SOC2 and GDPR compliance requirements.
• Built observability dashboards and alerting using Grafana and Prometheus, reducing Mean Time to Detection (MTTD) by 30% for production incidents.

Mindtree Ltd | Software Engineer (Full Stack) | Feb 2019 – Aug 2023

• Led a zero-downtime migration of a 500GB MySQL database to PostgreSQL using AWS DMS (CDC), increasing query throughput by 2.5× for global enterprise users.
• Developed real-time event-driven features using FastAPI and Redis Pub/Sub, delivering synchronized UI updates to 5,000+ concurrent sessions with <50ms end-to-end latency.
• Optimized PostgreSQL performance through materialized views and partition pruning, reducing P99 latency from 800ms to 150ms in reporting workflows.
• Championed Test-Driven Development across frontend and backend codebases, increasing test coverage to 85% (Jest, PyTest) and reducing production regressions by 30%.
• Modernized monolithic services into Dockerized microservices, improving deployment frequency and accelerating feature delivery by 25%.
• Collaborated on frontend state architecture using Redux Toolkit, improving predictability and reducing debugging time for complex user workflows.

SELECTED ENGINEERING PROJECTS

Observable API Gateway & Full Stack Admin Panel

• Built a centralized API gateway with JWT authentication and request routing for microservices.
• Integrated Prometheus exporters and visualized throughput and error metrics in a custom React admin dashboard.

Distributed Task Orchestrator

• Designed an asynchronous task processing system handling 1,000+ tasks/sec using Python and Redis.

EDUCATION

Master of Science in Computer Science | Sacred Heart University, USA | 2024
Bachelor of Science in Computer Science | KL University, India | 2018