Polasi Sai Deepak

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SUMMARY

A Product-Focused Full-Stack Engineer with 3+ years of experience in high-scale distributed systems and driving feature velocity for critical business workflows.

System Scale & Resilience:	Engineered resilient, high-throughput microservices (Java/Spring Boot, React/TypeScript) handling over **1M+ monthly requests with 99.98% uptime**, resulting in a **30% reduction in P95 latency**.
Product Ownership:	Drove engineering and product velocity by owning reusable platform components (schema-driven UI frameworks) and automating infrastructure (AWS CDK), accelerating time-to-market for **5 critical releases**.
Quality & Stability:	Established system-level quality and resilience patterns (centralized retry framework, E2E testing) that cut critical production bugs by 90% and lowered cross-cloud integration failure rates by **45%**.

PROFESSIONAL EXPERIENCE

Coupa Software| Software Development Engineer   *Remote, USA | Jan 2025 - Present*

- **Product Velocity Platform**: Designed and delivered a schema-driven dynamic form system (React + TypeScript), a reusable platform component that scaled product development by reducing UI configuration time by **70%** for multiple product teams.
- **Massive Scale & Resilience:** Engineered core financial API services (Java/Spring Boot) handling over **1M+ monthly requests with 99.98%** uptime.
- Drove service performance by implementing optimizations that improved the **P95 latency by 30%.**
- **System Stability & Quality**: Implemented a centralized retry + error-handling framework for cross-cloud services, lowering integration failure rates by **45%.**
- Established a robust Cypress + RTL E2E testing framework, leading to a reduction in critical production bugs by **90%.**
- Implemented rate-limit-aware API throttling to proactively **stabilize 3rd-party service SLAs.**
- Infrastructure-as-Code: Automated infrastructure provisioning via AWS CDK and GitHub Actions, enabling single-click deployments and accelerating time-to-market for **5 critical product releases.**
- Served as the primary technical point-of-contact for cross-cloud financial API integrations, working with security, infra, and data teams to design resilient interface contracts and eliminate integration ambiguity.

Citius Tech | Software Development Engineer   **Tamil Nadu, India | Dec 2019 - Dec 2023**

- **Data-Driven Product Strategy**: Pioneered ETL data infrastructure processing **30M+** rows of healthcare data, enabling Product Managers to make decisions with **2x faster report freshness**.
- **Performance & Caching**: Optimized complex database queries (MySQL/PostgreSQL) and implemented Redis-backed caching that **reduced analytics/reporting latency by 35%.**
- The optimization supported over **200K+ API calls/day** in a critical analytics pipeline.
- **Robust Product System**: Developed a role-based, server-driven field visibility control system that eliminated Frontend/Backend validation drift.
- This control system successfully reduced product defects by **40%.**
- **DevOps & Deployment**: Containerized services using Docker and automated CI/CD with GitHub Actions.
- The CI/CD automation **reduced deployment time/failure rates by 50%** and minimized deployment errors across teams.
- Contributed to building HIPAA-compliant healthcare products utilized by **50,000+ weekly users (clinical/operational).**
- Partnered with PMs to prioritize latency and SLA improvements for high-value financial workflows, directly improving end-user task completion times and reducing customer-reported delays by 25%.

SKILLS

Languages:	Java, TypeScript, JavaScript, Python, C++
Frontend/UX:	React, Next.js, Redux, Tailwind, Cypress, Jest
Backend/API:	Spring Boot, Node.js, Express, GraphQL, REST, OAuth2, OpenAPI
Cloud/Infra:	AWS (Lambda, API Gateway, DynamoDB, SQS, SNS, S3, CDK, CloudWatch), Docker, Kubernetes, Nginx
Data/Tools:	MySQL, PostgreSQL, MongoDB, Kafka, Git, CI/CD

EDUCATION

Florida International University | MS in Computer Science   **Miami, FL | Jan 2024 - May 2025**
Coursework: Data Structures and Algorithms, Object Oriented Design, Design Patterns, **AI/ML (LLM, Agentic AI, RAG)**, Operating Systems | GPA: 3.95/4.0