

KODIMALA VAMSHI KRISHNA

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SUMMARY

Software Engineer with 2+ years of experience building scalable full-stack applications. First engineering hire at an early-stage startup, shipping fast MVPs and leading technical initiatives across backend (Java/Spring Boot), frontend (React/TypeScript), and cloud infrastructure (AWS). Passionate about building products, system design, and SaaS.

EXPERIENCE

- **EnTeam AI (formerly Ezynest LLC, stealth mode)** Hyderabad, India
Software Engineer (First Engineering Hire) Aug 2025 - Present
Software Engineer Intern | Remote Oct 2023 - Aug 2025
Tech Stack: Java, Spring Boot, React, TypeScript, PostgreSQL, Redis, RabbitMQ, AWS (EC2, RDS, SQS, SES, Lambda, Bedrock), Docker, Nginx, GitHub Actions
 - **Led technical initiatives** as the first engineering hire, **managing a team of 5+ interns** in task assignment, delivery timelines, code reviews, and day-to-day engineering operations. Established coding standards and architectural patterns adopted across the engineering team.
 - **Architected microservices infrastructure** designing and deploying **5+ Java microservices** on **AWS EC2** (dedicated Tomcat servers) with **Spring Boot**, implementing REST APIs with server-side pagination, request validation, and **OpenAPI/Swagger** documentation.
 - **Optimized system performance** implementing circuit breakers using **Resilience4j** with fallback handling, configurable retry mechanisms, **Redis** caching layer achieving **2x performance improvement**, and optimized database connection pooling.
 - **Built fine-grained RBAC system** with hierarchical permission matching (action and boundary hierarchies), **Caffeine** caching (15-min TTL) with targeted eviction, achieving **80% cache size reduction** through permission deduplication, and cross-service permission checks.
 - **Implemented message-driven architecture** using **Amazon SQS** with polling for async operations (email processing, audit logs), **dead-letter queues (DLQ)** for failed message handling with automatic failover, and **RabbitMQ** for event-driven pub-sub workflows.
 - **Developed authentication system** with **OAuth2 Client** (Google, LinkedIn), **JWT**-based auth with **refresh token rotation**, and API key-based service-to-service authentication for internal calls.
 - **Built email infrastructure** integrating **AWS SES** with custom domain support (DNS verification, TXT, DKIM, SPF records), dual-mode email system (default and custom domains), multi-region AWS setup (SQS ap-south-2, SES us-east-1), and modern **Thymeleaf** email templates.
 - **Led database schema design** for all product features, architecting **PostgreSQL** table structures, relationships, and indexes. Designed multi-tenant database architecture, custom fields and custom objects system, and integrated **pgvector** for vector search capabilities.
 - **Integrated workflow automation** with **Netflix Conductor** as workflow engine, implementing DAG validation engine for input validation, translation service to deploy workflows, and RabbitMQ event listeners to trigger workflows on various events.
 - **Established frontend architecture** defining feature-based folder structure, state management patterns (**Zustand**), server-side data handling (**TanStack Query**), form handling (**Zod + react-hook-form**), and **shadcn/ui** component library – patterns adopted by entire frontend team.
 - **Built complex frontend features** including admin dashboards with **data-table** (advanced filtering, column sorting, responsive mobile cards), node-based workflow builder UI with keyboard shortcuts, auto-save, and RBAC-aware dynamic form rendering with feature flags.
 - **Managed AWS infrastructure** deploying 5+ Java microservices on **EC2**, 3+ React apps on **Nginx**, **RDS** for PostgreSQL, **Route53** for DNS, **CloudFront** for CDN, **Bedrock** for LLM inference, and **Lambda** functions for Python/LLM services with **FastAPI + Mangum**.
 - **Implemented CI/CD pipelines** writing **GitHub Actions** workflows with automated deployments, PR checks (lint, build), zero-downtime deployment strategy, manual rollback capability. Configured **Nginx** reverse proxies, load balancing, and SSL/TLS termination.
 - **Integrated third-party services** including **Stripe** for payment processing and **LangGraph**-based translation service for LLM workflows adding AI capabilities to internal applications.

EDUCATION

- **Mahatma Gandhi Institute of Technology** Hyderabad, India
Bachelor of Technology - Computer Science and Engineering (AI & ML); CGPA: 7.9 2021 - 2025

SKILLS

- **Languages:** Python, Java, TypeScript, JavaScript, SQL, C
- **Backend:** Spring Boot, Node.js, FastAPI, REST APIs, RabbitMQ, Redis, JWT, OAuth2
- **Frontend:** React, Zustand, TanStack Query, TailwindCSS, shadcn/ui, Vite
- **Cloud & DevOps:** AWS (EC2, RDS, SQS, SES, Lambda, Bedrock, CloudFront), Docker, GitHub Actions, Nginx
- **Databases:** PostgreSQL, pgvector, MongoDB
- **AI/ML:** LangGraph, LangChain, uv

PROJECTS

- **Yashu Research Assistant:** Automated research gap identification and hypothesis generation system with 7-agent LangGraph pipeline (Input, Literature Mining, Classification, Gap Analysis, Knowledge Graph, Hypothesis Generation, Validation). Multi-source literature aggregation (arXiv, PubMed, Semantic Scholar, OpenAlex, bioRxiv), HDBSCAN clustering, citation/temporal analysis, and FastAPI backend with WebSocket support. Tech: Python, LangGraph, FastAPI, PostgreSQL, pgvector, Redis, NetworkX, sentence-transformers
- **LoyaltyStack:** B2B rewards and loyalty program platform enabling businesses to create, manage, and distribute coupons with workspace-based multi-tenancy and payout tracking. Tech: TypeScript, React, Vite, PostgreSQL, Supabase
- **Service Health Monitor:** Real-time service health monitoring system providing visibility into status of critical services with alerting capabilities. Tech: ReactJS, Node.js, Express.js, MongoDB

HACKATHONS

- **Smart India Hackathon (2024):** Participated in college-level hackathon at MGIT as part of a team.
- **Smart India Hackathon (2023):** Built a web application that helps farmers make informed decisions on crop selection by analyzing historical agricultural data and regional patterns. College-level hackathon at MGIT.
- **Kavach Hackathon (2022):** Developed a CNN-based system for real-time vehicle registration plate recognition from video input, aimed at enhancing security and surveillance. College-level hackathon at MGIT.

CERTIFICATIONS

- **IBM Data Science Specialisation** Credential Link
Coursera
- **Microsoft Career Essentials in Generative AI** Credential Link
LinkedIn Learning
- **Design That Sells** Credential Link
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VOLUNTEER EXPERIENCE

- **Member and Technical Lead at Idea Incubator (Student Club MGIT)** Hyderabad, India
Provided tech support, organised and conducted events reaching over 500 students. *Feb 2023 - 2025*
- **Member and Lead Singer at The Symphony (Student Music Club MGIT)** Hyderabad, India
Organized music events and performed on stage with an audience of over 3000 people. *Apr 2022 - 2025*
- **Member and Writer at The Spotlight (Student Drama Club MGIT)** Hyderabad, India
Contributed scripts for stage plays and short films. Provided stage support during performances. *2022 - 2025*