

AYUSH GUNDECHA

SOFTWARE ENGINEER — AI AGENTS · FULL-STACK · INFRASTRUCTURE

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Work Experience

Entitled Solutions | Software Engineer (Founding)

Mar 2025 – Present

- Founding engineer with full-stack ownership of **4+ product surfaces** (Insurance, HRMS, Lending, WhatsApp apps), spearheading the end-to-end product lifecycle from architecture to deployment.
- Built and scaled an event-driven **insurance platform processing 40K–50K policies/month** across a nationwide partner network — policy APIs, async pipelines, and Next.js dashboards for real-time tracking and analytics.
- Architected an **AI-native HRMS** — React + TypeScript admin web app and an agentic React Native mobile app on a single NestJS backend — replacing click-heavy HR UIs with a **chat-first experience**.
- Built the **AI assistant** powering the HR mobile app using **pi-agent-core** and **OpenRouter**, enabling LLM tool calling, **SSE streaming with sub-2s first-token latency**, server-validated propose→confirm execution, model failover, and zero-downtime deployments.
- Shipped the end-to-end **payroll engine** — managing salary structures, statutory deductions, and multi-stage approvals within a complex **25-module / 150-endpoint** NestJS + Prisma + MySQL backend.
- Designed and shipped **5+ production WhatsApp apps** for customer- and employee-facing workflows — owned conversational screens, webhooks, and backend state machines end-to-end.
- Integrated **Playwright + Claude-vision visual regression** into pre-push hooks, auto-posting UI diffs to PRs; automated **bulk e-card generation at thousands/month**, replacing **~95%** of a manual ops workflow.

Ziroh Labs (Kompact AI) | Backend Developer (Intern → MTS)

Jun 2024 – Mar 2025

- Built and shipped Kompact AI's **Python SDK + CLI** from scratch— wrapping chat, embeddings, and fine-tuning APIs with auth, retries, error handling, and structured exceptions.
- Designed and built net-new **Java + PostgreSQL microservices** powering LLM workflows — owned API contracts end-to-end, schema design, async/queue processing, and direct integration with external LLM provider APIs.

Skills

Programming Languages: TypeScript, JavaScript, Python, Java

Frontend: React, Next.js, React Native, Tailwind CSS

Backend: Node.js, Express, NestJS, Prisma, FastAPI, REST APIs

Databases: MySQL, PostgreSQL, MongoDB

AI & LLMs: pi-agent-core, Anthropic SDK, OpenAI, OpenRouter, Tool Calling, Agent Workflows, RL environments

AWS & DevOps: Docker, EC2, ECS, S3, Lambda, SQS, CodePipeline, CodeBuild, CodeDeploy, CI/CD

Tools: Git, Playwright, Vercel

Projects

PAGECRAFT AI | Guardrailed LLM landing-page generator | [Github](#) | [Live](#)

- Generates **complete, conversion-optimized landing pages** from **natural language prompts** in seconds — hero sections, features, pricing, testimonials, CTAs, and more.
- Built a **constrained-generation pipeline** leveraging **Zod-validated JSON** for LLM outputs — utilizing **predefined components** to bypass arbitrary code execution and fundamentally eliminate **XSS and injection vulnerabilities** through architectural design.
- Developed a robust **rendering layer using Next.js, TypeScript, and Tailwind** — implementing a type-safe component registry, unified design tokens, and **real-time JSON-to-UI streaming** from natural-language inputs.

Axiom AI | Training “gym” for AI agents | [Github](#) | [Live](#)

- Developed a **training gym for AI agents** — featuring **4 pluggable environments** (CLI, Web, JSON, mini-Slack) unified via a **BaseEnvironment interface** and REST API, with automated **4-dimensional scoring** (efficiency, accuracy, safety, completion) and **347 strict mypy-validated tests**.
- Designed a reward-centric evaluation framework; mitigated **25 reward-hacking exploits** via **14 robust defenses**, achieving **0% adversarial breach rates** across a **174-run validation suite**.
- Led **adversarial red-teaming** with **Claude/Gemini agents**; converted exploits into **automated regression tests** and deployed a hardened **LLM-as-judge** with a **100% block rate** against prompt-injection attacks.

Education

Bharati Vidyapeeth (Deemed University) College of engineering, India

2021 - 2025

- Bachelor of Technology | Information Technology | CGPA: **8.80/10**