

Riya Tilwani

Senior Full-Stack / Backend Platform Engineer | AI Products, Payments, DevOps, Technical Leadership

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SUMMARY

Senior full-stack and backend platform engineer with 8+ years delivering marketplace, payments, EV launch, travel technology, AI SaaS, and startup systems. Built checkout/pricing services for a marketplace that surpassed 50M lifetime trades, shipped 3 AI-first products in 6 months, integrated payment and booking workflows during a 100k+ reservation launch, and now leads zero-to-one architecture, DevOps, AI workflow automation, and engineering delivery as a founding engineer and fractional CTO.

TECHNICAL SKILLS

Backend, data, and product systems: System design, Backend architecture, REST APIs, Microservices, Data modeling, PostgreSQL, DynamoDB, Kafka, SQS, Checkout, Payments, Adyen, PayU, Stripe

AI, data ingestion, and workflow automation: AI product workflows, LLM integrations, OpenAI API, Whisper, RAG, SVG and Lottie ingestion, CSV/PDF ingestion, Report generation, Document automation, n8n

Full-stack languages and frameworks: React, Next.js, TypeScript, Node.js, Express, Django, FastAPI, Python, Go, Java Spring Boot

Cloud, DevOps, and technical leadership: AWS, Azure, Firebase, Cloud Functions, Kubernetes, Jenkins, CircleCI, Harness, Datadog, Product architecture, DevOps ownership, Fractional CTO, Hiring and interviewing

PROFESSIONAL EXPERIENCE

Stealth startup

2026 - Present

Founding engineer | Creator tools startup | remote

- Own zero-to-one product engineering for live streamer and creator tooling across architecture, backend systems, frontend workflows, integrations, and release tradeoffs.
- Architect an AI-powered widget ingestion platform that converts AI-processed SVG and Lottie assets into reusable creator-facing components, reducing repetitive manual build work for a large widget library.
- Translate founder priorities and ambiguous creator workflows into production-ready surfaces for high-pressure live usage.

Gryd.io

Dec 2024 - Present

Fractional CTO | US company | remote

- Lead architecture and delivery for a US startup, managing a small part-time engineering team across backend architecture, DevOps, Atlassian Marketplace apps, CRM/marketing automation, and production releases.
- Build a CRM and automated marketing platform from zero to production, turning founder and client requirements into API design, workflow automation, and release plans for an existing customer base.
- Prototype AI and automation workflows for client-facing product needs and internal operations while keeping delivery lightweight and maintainable.

Lumentis AI

Apr 2024 - Sep 2024

Software developer | German AI company | remote

- Shipped 3 AI-first SaaS and enterprise products in 6 months: legal transcription, business report generation, and a self-hostable enterprise assistant.
- Built a subscription transcription workflow for a law firm using context-aware Whisper, Stripe subscriptions, React, Django, and CloudFront.
- Delivered enterprise assistant and reporting workflows with open-source LLM support, search, speech input, persistence, sandboxed execution, generated charts, and PDF export.

StockX

Jun 2021 - Oct 2023

Software engineer | US marketplace | India engineering office

- Built and operated checkout and pricing microservices for global marketplace systems serving a platform that surpassed 50M lifetime trades, 15M buyers, and 1.7M sellers by 2023.
- Owned backend delivery across Go, Node.js, PostgreSQL, DynamoDB, Kafka, SQS, AWS, Kubernetes, CircleCI, Harness, and Datadog for high-traffic, fraud-sensitive commerce workflows.
- Improved marketplace domain reliability across checkout business logic, pricing rules, regulatory constraints, peak traffic, scalability, and fraud-risk workflows.

Ola Electric

Nov 2019 - May 2021

Software engineer | High-scale EV product company

- Built customer-facing website, payment, and test-ride systems during Ola Electric's launch cycle, including Adyen and PayU integrations for a vehicle launch that reached 100k+ reservations in 24 hours.
- Delivered scheduled and on-demand test-ride workflows using React, Node.js, Java Spring Boot, and MySQL.
- Led external contractors, conducted 50+ interviews, mentored new joiners, and managed service deployments through Jenkins, Marathon, Mesos, and Azure.

Amadeus Labs

Nov 2017 - Oct 2019

Software developer | European travel technology company | India engineering office

- Developed enterprise scheduling and software-load activation tools for travel technology operations across MEAN-stack workflows and Java-backed internal systems.
- Supported production-change workflows used by internal engineering and operations teams in a large travel technology environment.

SELECTED ACHIEVEMENTS

Marketplace scale and checkout reliability

StockX | checkout, pricing, marketplace infrastructure

- Built and operated checkout and pricing services for a global marketplace that surpassed 50M lifetime trades, 15M buyers, and 1.7M sellers by 2023, working across Go, Node.js, PostgreSQL, DynamoDB, Kafka, SQS, AWS, Kubernetes, CircleCI, Harness, and Datadog.

AI SaaS product shipping

Lumentis AI | legal, reporting, enterprise assistants

- Shipped 3 AI-first SaaS and enterprise products in 6 months, covering legal transcription with Whisper, business report generation with AI-generated content/charts/PDF export, and a self-hostable enterprise assistant with open-source LLM support.

Startup technical leadership

Gryd.io | US startup | architecture and delivery

- Lead architecture and delivery as fractional CTO for a US startup, managing a small part-time engineering team while owning backend architecture, DevOps, Atlassian Marketplace apps, CRM/marketing automation, AI workflow prototyping, and release tradeoffs.

EV launch customer systems

Ola Electric | EV launch, payments, booking workflows

- Built customer-facing web, payment, and test-ride systems during Ola Electric's launch cycle, including Adyen and PayU integrations for a vehicle launch that reached 100k+ reservations in 24 hours and about 500k first-month bookings.

EDUCATION

VIT Vellore

2013 - 2017

B.Tech, Information Technology

CGPA 8.9/10