

# VINAY VIDYASAGAR

**Applied AI Engineer | AI Workflow & SaaS Systems Builder**

Bengaluru, India

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## PROFESSIONAL SUMMARY

Applied AI Engineer and full-stack systems builder with **5+ years of product engineering experience** and **17+ years across technology, infrastructure, and platform delivery**. Specialized in designing and deploying **LLM-driven workflows** within *production-grade SaaS systems* built using **Next.js, Node.js, Prisma ORM, PostgreSQL, and Clerk authentication**.

Experienced in architecting **role-based platforms (RBAC)**, **payment-integrated systems with idempotent webhooks**, large-scale **Next.js App Router API architectures**, and AI-assisted content transformation pipelines. Strong focus on **automation, system governance, reliability, observability, and developer productivity**.

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## CORE SKILLS

### Applied AI & LLM Workflows

- **Claude Code** (primary AI-native development workflow)
- **Codex CLI / Codex App**
- Structured *prompt engineering* & LLM-assisted architecture refactoring
- AI-driven content transformation pipelines
- Iterative generation & evaluation loops (roadmap toward multi-stage refinement)

### AI Systems & Automation

- Resume parsing & structured extraction pipelines
- AI-powered interview simulation systems
- Automation workflows (**n8n**)
- Python CLI automation tools
- AI-assisted development workflows using **Warp** terminal

### SaaS & Platform Architecture

- **Next.js (App Router)** API architecture (~190 route handlers across public, protected, and admin surfaces)
- **Clerk authentication** + webhook verification
- **Role-Based Access Control (RBAC)** enforcement
- Payment integration (Dodo) with idempotency controls
- **Prisma ORM & PostgreSQL**
- Structured logging & correlation IDs
- CSRF protection & rate limiting
- **Jest & Playwright** testing

## Technology Stack

Next.js | React | TypeScript | Node.js | Python | Prisma | PostgreSQL | Clerk | Vercel | WordPress | Linux | Git | Warp

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## SELECTED PROJECTS

### Applied AI Engineer — Financially (AI Financial Insights Platform) (2026–Present)

Live: <https://financially-ai.vercel.app/>

Built a **full-stack AI-powered financial insights platform** with a **Vite + React + TypeScript frontend** and a **Prisma-powered backend connected to PostgreSQL (Neon)**, focused on transforming structured financial inputs into readable analytical outputs.

- Architected modular **Vite-based React SPA** with clear separation between UI components, financial processing logic, and AI inference layer
- Designed relational data models using **Prisma ORM** with version-controlled migration history
- Implemented server-side API handlers backed by **Prisma Client** for persistent expense tracking, user feedback capture, legal consent logging, and site mode management
- Managed structured database migrations (feature additions, admin hardening, schema evolution)
- Integrated **PostgreSQL (Neon serverless)** for scalable, cloud-hosted relational storage
- Integrated **LLM API calls via OpenRouter** for AI-generated financial summaries and contextual explanations, enabling model-agnostic inference routing
- Built reusable React dashboard components for financial metrics, projections, and summary visualization
- Managed secure **environment variables, database connection strings, and API key isolation** for serverless deployment
- Deployed backend API layer and frontend build to **Vercel serverless environment** with production configuration management

- Defined monetization roadmap including tiered subscription access, usage-based AI inference limits, and premium analytics feature gating
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## Applied AI Engineer — LazyLMS (2025–Present)

Live: <https://lazylms.vercel.app/>

Architected and built a **production-grade, full-stack learning commerce platform** using **Next.js (App Router)**, **Prisma ORM**, **Clerk authentication**, and **PostgreSQL**, deployed on **Vercel**.

- Implemented **~190 App Router API route handlers** spanning public, authenticated, and admin surfaces
- Designed relational schema using **Prisma ORM** with structured, version-controlled migration history
- Enforced multi-role **RBAC system (Admin / Instructor / Student)** with route-level access control
- Integrated **Dodo payment workflows** with idempotent webhook validation and automated enrollment provisioning
- Implemented coupon lifecycle synchronization (UI → backend → payment provider)
- Built certificate generation and public verification endpoints
- Structured API classification (**public | protected | admin**) with CSRF protection, rate limiting, and correlation-aware logging
- Achieved reliability through **Jest unit tests (80+ files)** and **Playwright E2E suites (40+ flows)**
- Leveraged AI-assisted development workflows (Claude Code, Codex) to accelerate refactoring, feature expansion, and architectural iteration

**Status:** Functional prototype deployed with validated build and staging parity on **Vercel**.

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## Applied AI Engineer — BuildMyResume (2026–Present)

Building a **full-stack AI-powered resume optimization SaaS** using **Next.js (App Router)**, **Prisma ORM**, **Clerk authentication**, and **OpenRouter-based LLM inference**, deployed on **Vercel**.

- Implemented **~18 App Router API route handlers** spanning resume parsing, content generation, scoring, interview simulation, and payment validation flows
- Designed relational schema using **Prisma ORM** with migration-backed schema evolution for user data, generated outputs, and transaction tracking
- Built authenticated multi-user workflows using **Clerk**, enforcing protected routes and role-aware access control
- Integrated **OpenRouter-based LLM inference** for resume rewriting, keyword optimization, and AI-driven interview simulation pipelines

- Implemented structured server-side resume parsing and transformation logic with persistent storage via **PostgreSQL**
- Integrated payment validation and feature gating using webhook-backed access control (premium generation & download unlocking)
- Designed architecture to evolve toward multi-stage evaluation loops (*parse* → *analyze* → *rewrite* → *score* → *refine*) for improved output quality and ATS alignment
- Deployed to **Vercel serverless environment** with environment-isolated database connections and API key management

**Status:** Functional prototype with authentication, AI generation, persistence, and payment flows operational.

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## Applied AI Engineer — LazyScan (Python Automation CLI) (2024–Present)

Live (PyPI): <https://libraries.io/pypi/lazyscan>

Built and distributed a **modular Python-based system automation CLI** focused on repeatable cleanup workflows, safety enforcement, and extensible command design.

- Architected package-structured CLI application using **Python**, modular command handlers, and pluggable helper utilities
  - Implemented command parsing via **argparse / Click-style interfaces** with structured subcommand routing
  - Designed safety-first execution model with disclaimer gating and controlled system-level operations
  - Leveraged **subprocess execution**, structured logging, and helper abstraction layers for OS-level interactions
  - Implemented test coverage with **Pytest (18+ test files)** and configuration via `tox / mypy` for type and quality checks
  - Prepared distribution artifacts using **setup.py, pyproject.toml, and packaging configuration** for installable CLI releases
  - Authored technical documentation (API docs, migration guides, enhancement roadmap) to support maintainability and extensibility
  - Used AI-assisted workflows (Claude Code, Codex) to accelerate refactoring, modularization, and architecture iteration
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## PROFESSIONAL EXPERIENCE

### Lead – Game Development | Wow Labz (2022–2025)

- Architected and delivered interactive and XR systems from concept to paid MVP.
- Designed scalable modular architectures and reusable system components.
- Implemented **CI/CD pipelines** and structured deployment workflows.

- Conducted R&D on AI-driven interaction systems (Unity Sentis, ONNX).
- Mentored engineers and enforced clean architecture principles and code reviews.

### **Unity Developer & Lead Game Designer | PakkaProfile (2021–2022)**

- Built and shipped a 3D gamified platform from concept to production.
- Designed player systems, economy logic, and environment workflows.
- Managed Android/iOS builds and deployment pipelines.

### **Freelance Unity Developer / Solutions Architect (2015–2021)**

- Delivered interactive applications and web-integrated systems for clients.
- Designed modular architectures and reusable components.
- Managed end-to-end project lifecycle including deployment.

### **Broadcast Tech & Technical Director | Cisco (2016–2022)**

- Managed real-time broadcast systems and high-availability live production workflows.
- Ensured operational reliability under time-sensitive conditions.
- Coordinated multi-team technical execution across complex environments.

### **Senior Executive – HR (Learning & Development) | LG Soft India (2011–2015)**

- Led employee engagement and learning initiatives across departments.
- Coordinated recruitment support and internal communications.
- Managed structured documentation and cross-team reporting.

### **Assistant Director – Corporate Films & Communications | Frame Of Mind (2007–2011)**

- Delivered corporate communication projects for enterprise clients.
- Managed production workflows and stakeholder coordination.

### **Team Lead & Client Manager | Verifacts Services (2005–2007)**

- Led analyst teams and managed client-facing operations.
- Oversaw performance tracking and SLA adherence.

### **Infrastructure & Web Systems (Early Career)**

- Managed **Linux-based hosting environments** and **WordPress platforms**.
- Configured web servers (Nginx/Apache), SSL certificates, DNS, and deployment workflows.
- Performed database migrations, MySQL optimization, and backup/recovery operations.

- Built foundational expertise in **web infrastructure, WordPress customization, and Linux server administration.**
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## **WORKING PRINCIPLES**

- **Ship fast. Refactor often.**
- **Build production-aware systems from day one.**
- **Automate repetitive workflows wherever possible.**
- **Use AI as a development accelerator — not a replacement for sound system design.**