

Vedang Vinay Date

Full-Stack Product Engineer & AI Developer · Founder, PairForge

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SUMMARY

Full-stack product engineer who takes software from idea to deployed, monitored production — across mobile, web, backend, and AI. Founder of PairForge, a lean AI-native product studio. Polyglot engineer (Python, C#/NET, Dart/Flutter, TypeScript, Rust, Go) with standout expertise in **AI/LLM systems** — RAG pipelines, agentic automation, and LLM integrations — backed by solid DevOps and self-hosted infrastructure experience. B.Tech (IT), MITCOE Pune. 7+ years building software professionally (since 2018).

CORE SKILLS

AI / LLM Engineering: Agentic automation & multi-agent orchestration (agent teams), autonomous agent pipelines, RAG systems (incl. knowledge-graph RAG), LLM integration (Claude, Groq Llama, Gemini, OpenAI), MCP server development, voice-to-form, prompt engineering, DSPy, semantic kernel

Backend: Python (FastAPI, SQLAlchemy), C#/NET (Azure Functions), REST API design, PostgreSQL, Supabase, Alembic

Frontend / Mobile: Flutter & Dart (iOS, Android, Web, Windows, macOS), Riverpod, TypeScript, React, Node.js, SvelteKit, Next.js

DevOps / Infra: Docker, Traefik, Cloudflare, self-hosting (Proxmox, K3s), Ansible, CI/CD, cloud→self-hosted migration, disaster recovery, health monitoring, Azure, Firebase, Hetzner

Integrations / Automation: Slack & WhatsApp bots, webhook pipelines, n8n, data sync tools, MCP servers

Other languages: Rust (Tauri), Go, Swift, C++ · **Practices:** TDD, clean architecture, API contract design

EXPERIENCE

Founder & Lead Engineer — PairForge

2025 – Present

- Founded a lean, AI-native product studio building full-stack mobile + web applications and AI systems.
- Architect and ship complete products end-to-end: backends, mobile apps, AI features, deployment, and monitoring.
- Built internal automation (Slack→GitHub triage agent spawning headless Claude, multi-account AI orchestration) enabling a small team to deliver at the pace of a much larger one.

CTO → Partner — Date Panchang Digital Solutions

CTO until ~Nov 2024 · Partner since

- Tech lead for a 110-year-old family astrology business's full digital transformation.
- Built and operate complete astrology-tech products: B2B and B2C Flutter apps (iOS/Android/Windows/macOS/web), backend APIs (.NET 8 Azure Functions + Python), payment & order processing, and an astronomical/panchang calculation engine.
- Designed and ran self-hosted disaster-recovery and cloud-migration infrastructure (Proxmox + K3s, Caddy, Cloudflare tunnels, automated healing/watchdog monitors).
- Stack: Flutter · SvelteKit · C#/NET 8 · Azure · Firebase · PostgreSQL. CI/CD via Azure DevOps + GitHub Actions.

Full Stack Developer — BreathAI (Innoscent)

2022 – 2023

- Built an AI breath-diagnostics application — full-stack work centered on time-series data analysis for health diagnostics.
- Developed the product's Flutter mobile app.

Freelance Web Developer — Stack Identity

2021

- Built company website (WordPress on AWS Lightsail).

SELECTED PROJECTS

Eventoo — AI-Powered Event Management Platform (PairForge)

- End-to-end product (Flutter mobile + FastAPI backend): AI voice-to-form event creation; role-based access (manager / employee / client portal); Google Sign-In; task, vendor & todo management.
- Dockerized, deployed with CI/CD and automated health monitoring.
- **Stack:** Flutter · FastAPI · PostgreSQL · Firebase Auth · Groq LLM · Docker

AI Agentic Systems & Automation

- **Multi-agent teams** — orchestrate teams of specialized AI agents that collaborate on complex work: software agent teams (architect / backend / frontend) for building & reviewing code, plus multi-account agent orchestration on a single machine.
- **Akshara** — an 8-agent content-production pipeline (research → world-building → writing → editing → continuity-checking) that autonomously writes and publishes a serialized web novel — agentic automation beyond software.
- **RDD Engine** — autonomous issue-fixing pipeline powered by Claude Code.
- **PairForge Triage Agent** — Slack→GitHub triage MCP server that spawns headless Claude to evaluate, create, and fix issues.
- **Knowledge-graph RAG** — multiple RAG systems over domain knowledge (Neo4j/Cypher, DSPy, GraphRAG); custom MCP servers for Slack, WhatsApp, and more.

Other notable builds

- **Roopantar** — immersive interior-design app with Gemini AI. · **Oratix** — desktop dictation app (Rust + Tauri + React, OpenAI Whisper). · **devremote** — Flutter app to remotely control Claude Code sessions over SSH/tmux.

EDUCATION & LANGUAGES

B.Tech, Information Technology — MIT College of Engineering (MITCOE), Pune · 2018

Languages: English (fluent) · Hindi · Marathi