

Pranshu Pandey

Backend | AI Engineer

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Education

Shri Govindram Seksaria Institute of Technology and Science (SGSITS), Indore B.Tech in Electronics and Instrumentation Engineering	2023 – Present CGPA: 7.6/10
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Technical Skills

- **Languages:** Python, TypeScript, JavaScript, SQL, C++
- **Backend:** FastAPI, PostgreSQL, SQLAlchemy, Prisma, Redis, RabbitMQ, ARQ, AsyncIO, Pydantic
- **AI:** LangChain, MCP, RAG Pipelines, Agentic Systems, OpenAI APIs, Azure AI Foundry
- **Frontend:** Next.js, React, Zustand, TanStack Query, Tailwind CSS
- **Infrastructure:** Azure, Docker, GitHub Actions, Azure Container Registry, NGINX, SSL/TLS, Linux, SSH, CI/CD
- **Concepts:** Distributed Systems, Event-Driven Architecture, Background Jobs, Caching, Rate Limiting, REST APIs

Experience

Full Stack & GenAI Engineer @ Invsto	April 2025 – Present
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- Owned and contributed to multiple production repositories spanning AI applications, backend services, developer tooling, and platform infrastructure.
- Designed asynchronous backend systems using FastAPI, AsyncIO, RabbitMQ, Redis, and ARQ workers to support scalable event-driven workflows.
- Built agentic AI platforms across both web and CLI interfaces using MCP, Azure AI Foundry, and modular RAG architectures.
- Developed AI assistants for feature automations using retrieval systems and custom MCP tools.
- Built internal AI agents supporting developer productivity, UAT processes, and go-to-market workflows through tool orchestration and automation.
- Developed secure execution environments for user-defined workflows with strict runtime isolation and controlled tool access.
- Re-architected a latency-critical processing pipeline using distributed workers, Redis coordination, and message queues, reducing execution latency from 27 seconds to sub-second performance.
- Built reusable infrastructure for retrieval, workflow orchestration, task scheduling, tool execution, and agent lifecycle management.
- Managed production infrastructure including Linux servers, SSH access, NGINX reverse proxies, SSL/TLS certificates, Azure deployments, container registries, and GitHub Actions CI/CD pipelines.

Projects

EL-LMS, SGSITS



- Built a full-scale ERP/LMS for the Electronics Instrumentation department using React, Express, PostgreSQL, Prisma, and Zustand.
- Implemented QR-based attendance, assignment management, forms, notes distribution, simulator integrations, and academic workflow automation.
- Developed an online testing platform with automated evaluation, analytics dashboards, and email-based result delivery.
- Automated departmental PDF and Excel reporting workflows and self-hosted the platform using NGINX and PM2, serving 500+ daily users and 15,000+ requests/day.

P.R.A.N. (Public Relation and Analysis Node)



- Built an AI-powered Online Reputation Management platform using FastAPI, Next.js, Playwright, Redis, and RAG-based analysis workflows.
- Developed distributed scraping and sentiment-analysis pipelines for audience growth recommendations and brand monitoring.
- Architected modular backend services and scalable dashboards with clear API boundaries.