

Milan Panda

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SUMMARY

Full Stack Software Engineer with experience building and owning products end-to-end from React/Next.js frontends to Python backends and AWS cloud infrastructure. Skilled in API design, data modeling, and deployment pipelines, with production experience building retrieval-augmented (RAG) systems focused on low-latency, reliable architectures.

EXPERIENCE

Adapts AI

2024 – Present

Full Stack Software Engineer

US - Remote

- Owned and scaled core backend systems powering primary product workflows, designing APIs and services optimized for reliability and low-latency performance.
- Built an end-to-end retrieval-augmented (RAG) pipeline handling ingestion, retrieval orchestration, and response generation for production workloads.
- Built and maintained integrations with Atlassian (Jira, Confluence), Notion, Azure DevOps, GitLab, GitHub, and Bitbucket, enabling the product to sync and analyze content across customers' existing toolchains.
- Developed IDE extensions for VS Code and Cursor, bringing core product functionality directly into developers' existing workflows.
- Designed real-time systems enabling interactive chat workflows with streaming responses.
- Designed and deployed serverless architectures using AWS Lambda and API Gateway, replacing fixed-capacity servers with auto-scaling compute and removing idle infrastructure overhead, with secure authentication and session management via NextAuth and token-based access patterns.
- Modeled and optimized data storage in DynamoDB, designing access patterns for low-latency and high-throughput workloads.
- Built and maintained infrastructure using AWS CDK, owning CI/CD pipelines and multi-stage deployments.

Quantiphi

2022 – 2023

Software Developer (Frontend Engineer)

Bengaluru, India

- Diagnosed and resolved rendering bottlenecks in React applications, replacing inefficient state and re-render patterns to keep the UI responsive as data volume grew.
- Ran code reviews and set engineering standards for the team, catching issues before merge and keeping the codebase consistent across contributors.
- Refactored the Redux state architecture to remove duplicated logic and prop-drilling, making it easier to add new features without touching unrelated components.
- Built analytics dashboards using Looker and Tableau on Google Cloud Platform for data-driven decision making.

PROJECTS

Togglebit (GitHub | Live)

Next.js, FastAPI, PostgreSQL, Redis, TypeScript SDK, Docker

- Built a full-stack feature flag SaaS (SDK + FastAPI API + Next.js dashboard) enabling safe deploys, percentage rollouts, and segment targeting without redeployments.
- Designed and published a TypeScript SDK (**togglebit**, under 2kb gzipped) with separate client and server entry points for React hooks and Server Components, LRU caching, and fail-closed defaults.
- Implemented a Redis-cached evaluation API in FastAPI with deterministic percentage bucketing and a JSONB-backed rule engine, achieving sub-millisecond flag evaluation.
- Delivered a multi-tenant dashboard with Clerk auth, 4-role RBAC, per-environment flag management, audit logging, and usage analytics.
- Containerized the full stack (nginx, Postgres, Redis, API, dashboard) for single-port deployment on any VPS via Docker Compose.

Knowrix (GitHub | Live)

Next.js, FastAPI, Qdrant, Redis, Docker

- Designed and built a full-stack retrieval-augmented knowledge platform supporting multi-source ingestion (documents, web content, repositories) into a vector database for semantic search.
- Implemented hybrid retrieval (dense vector search with reranking) and streaming LLM responses, improving answer relevance and reducing response latency.
- Built asynchronous ingestion pipelines using background workers, enabling scalable and non-blocking processing of large data sources.
- Designed multi-tenant architecture with authentication, workspace isolation, and API-level access control.
- Containerized services using Docker and designed deployment workflows for scalable environments.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, HTML, CSS
Frontend: React.js, Next.js, Tailwind CSS
Backend: REST APIs, Distributed Systems, Serverless Architectures
Cloud & Infra: AWS (Lambda, API Gateway, S3, ECS, CDK, CodePipeline, SQS, SNS), Docker
Databases: PostgreSQL, DynamoDB, MongoDB
AI Systems: Retrieval-Augmented Generation (RAG), LangChain, OpenAI SDK, Claude SDK, AWS Bedrock

EDUCATION

Punjab Technical University	2018 – 2022
<i>B.Tech in Computer Science</i>	<i>GPA: 7.93</i>