

Hatim Patwa

Senior Software Engineer (SDE-3) · Full-Stack, Backend & Applied AI
5+ years · TypeScript, Node.js, Python, Rust

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SKILLS

Languages: TypeScript, JavaScript, Python, Rust, SQL
Frameworks: Node.js, NestJS, FastAPI, Django, REST APIs, React, Next.js, Angular
Databases & Data: PostgreSQL, MySQL, MongoDB (NoSQL), Redis, Azure SQL, Snowflake, ETL/ELT, Dagster, Celery
Cloud & DevOps: AWS (ECS, RDS, S3, CloudWatch), Azure, GCP, Docker, CI/CD (GitHub Actions), Git, Playwright
AI & GenAI: Claude Agent SDK, MCP, AI agents, tool calling, RAG, embeddings, prompt engineering, LLM evaluation

PROFESSIONAL EXPERIENCE

SDE-3 & Forward Deployed Engineer — Systango

TypeScript, Python, Rust, NestJS, Django, PostgreSQL, AWS, Azure | Client Production Systems

India

Jan 2025 – Present

- Embedded with client teams in legal tech, procurement and mining SaaS, owning ambiguous requirements in unfamiliar multi-repo codebases end to end, from investigation through deployment and production support.
- Rewrote the Zoho → PostgreSQL sync as an exactly-once Dagster pipeline (~67% memory); led a lag investigation proving 99.2% of “lagging” records identical, then fixed the defect leaving 13.2% of legal matters unfindable.
- Led the Azure SQL → PostgreSQL cutover of a Node.js/TypeScript integration engine (~30 processes) behind a runtime-switchable adapter, so rollback needed no deploy; migrated 111 reporting tables to AWS RDS PostgreSQL.
- Root-caused a production incident where 3 of 451,525 rows stalled event ingestion for ~52 hours, and fixed four compounding defects that were silently losing CRM deletes, with unit-tested helpers.
- Built a 2-day proof-of-concept database assistant: a Rust MCP server giving LLM agents read-only SQL access via parser-enforced guardrails, a FastAPI orchestrator pooling Claude Code sessions, and a React chat UI (82 tests).
- Made LLM evaluation reliable across Groq LLaMA models in an AI call-coaching product with a per-model capability registry.
- Designed a scalable, asynchronous export engine for a procurement SaaS: Node.js streams with backpressure write multi-sheet Excel reports to Azure Blob Storage at constant memory, using Strategy/Factory design patterns.
- Built enterprise SSO on Azure AD B2C (OIDC federation, just-in-time provisioning, JWT claims) and Dynamics 365 Business Central ERP integrations in an Nx/NestJS microservices monorepo.
- Team lead on a multi-tenant mining-inspection SaaS (NestJS, PostgreSQL, GCP): owned code review and dev → prod releases (~100 merge requests), built multi-stage Docker images, designed an event-driven translation pipeline.

Software Developer — CDN Software Solutions Pvt. Ltd.

JavaScript, Angular, Node.js, SQL, Web3.js, Alchemy SDK | Full-Stack Client Applications

India

Jul 2022 – Jan 2025

- Built and maintained full-stack web applications and REST APIs with Angular, Node.js and SQL across the SDLC, working with clients and cross-functional stakeholders from requirements through testing and release.
- Built blockchain applications with Web3.js and Alchemy SDK; contributed to architecture, code reviews and Git repository management.

Web Developer — Saify Technologies

PHP, MySQL, JavaScript, HTML

India

2021 – 2022

- Built and maintained PHP/MySQL web applications: development, debugging, deployment, database troubleshooting.

SELECTED PROJECTS

Jarvis — Personal AI Assistant Daemon

Python, Claude Agent SDK, Unix sockets, YAML

- Built an always-on agentic assistant daemon with a Unix-socket CLI and YAML workflow-automation recipes, under a strict security model: PreToolUse guardrail hooks, no shell interpolation, append-only audit log.

Document Processing Sidecar — RAG Ingestion Service

Python, Docling, FastEmbed, OCR

- Built a Docling document-parsing service with OCR routing and FastEmbed embeddings for RAG retrieval.

AI Coding-Agent Skills & Tooling

Claude Code, Python, SQL

- Wrote AI-assisted development skills adopted by the team (MSSQL → PostgreSQL migration with SQL-equivalence checks, Jira → QA automation, ktdoc docs) and an orchestrator coordinating agents across 6–8 repositories.

CERTIFICATIONS

Claude Certified Architect – Foundations — Anthropic

EDUCATION

Devi Ahilya Vishwavidyalaya (DAVV), Indore

Bachelor of Computer Applications (BCA)

GPA: 9.3