

SHANKAR PRATAP SINGH GAUR

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EDUCATION

Amity University

Bachelor of Technology in Computer Science & Engineering

Gurugram, India

Expected Jul 2028

EXPERIENCE

Backend Developer Intern

Azevron Digital Solutions

Apr 2026 – Jul 2026

Remote – Gurugram, India

- Architected a RAG pipeline with vector retrieval and streaming context delivery, reducing manual data lookup effort by ~40%.
- Refactored Node.js microservices and REST APIs for higher concurrency, improving client-side page load latency by ~25%.
- Redesigned database access patterns, reducing average API response time by ~30%; monitored production performance with Prometheus and Grafana.
- Built integration-test pipelines and CI/CD deployment gates, reducing pre-release production regressions by ~20%.

Backend Developer Intern

Atomic Media

May 2025 – Jul 2025

Remote – New Delhi, India

- Optimized PostgreSQL and MongoDB query paths using EXPLAIN profiling and indexing, reducing average API latency by ~35%.
- Implemented JWT authentication and role-based access control (RBAC) across backend middleware and protected API routes.
- Built React and Tailwind CSS administration dashboards, integrating frontend state with backend services and APIs.
- Standardized Git review workflows and automated CI checks across a 6-person engineering team, reducing pull request cycle time by ~20%.

PROJECTS

ROPUS | Autonomous Agentic IDE & AI Risk Management Engine

[\[GitHub\]](#)

- Built an agentic IDE around a decoupled Go/TypeScript daemon communicating over JSON-RPC 2.0, supporting AI-generated inline diffs and compiler-driven self-repair loops.
- Developed a database-backed AST context engine and multi-provider LLM router to retrieve semantic code context for automated refactoring.
- Implemented a fraud-scoring engine using Expected Monetary Value (EMV) decision logic and Maker-Checker approval workflows.

Cognify | Full-Stack AI Operations & Billing Platform

[\[Live\]](#) [\[GitHub\]](#)

- Built a multi-tenant SaaS platform with Node.js, Express, PostgreSQL, and Prisma, enforcing workspace-level data isolation across JWT-scoped API routes.
- Implemented a subscription state machine integrating Razorpay webhooks, token accounting, usage metering, and billing dashboards.
- Designed backend workflows for concurrent tenant operations with transactional database updates and type-safe Prisma queries.

Stronix | B2B Supply Chain Operations Platform

[\[Live\]](#) [\[GitHub\]](#)

- Built a B2B supply-chain platform with vendor orchestration and real-time inventory synchronization across operational workflows.
- Implemented MongoDB ACID transactions and atomic updates to maintain inventory consistency during concurrent reservations.
- Optimized client-side search, filtering, and sorting to maintain responsive rendering for large result sets.

TECHNICAL SKILLS

Languages: C++, Go, TypeScript, JavaScript, Python, Rust, SQL

Backend: Node.js, Express.js, REST APIs, WebSockets, BullMQ, Prisma, Zod

Databases & Infrastructure: PostgreSQL, MongoDB, Redis, Docker, Kubernetes, AWS

AI Systems: RAG, LLM Integration, Vector Retrieval, AST-based Code Analysis

Frontend: React.js, Next.js, Tailwind CSS, shadcn/ui

DevOps & Observability: Git, GitHub Actions, CI/CD, Prometheus, Grafana, Vercel, Postman

Core CS: Data Structures & Algorithms, Distributed Systems, Object-Oriented Design, Database Systems

ACHIEVEMENTS

Hackathons: Finalist — Ctrl+Think Hackathon (Amity Gurgaon) | Finalist — Next Wave X OpenAI Hackathon | Finalist — Talent for Japan by Acumen