KRISHNA KUMAR

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SOFTWARE ENGINEERING INTERN | FULL-STACK DEVELOPMENT | BACKEND DEVELOPMENT

PROFESSIONAL SUMMARY

B.Tech Computer Science Engineering student (CGPA 8.41) with 23 merged pull requests across six external repositories. Built QuerySense and live Artfolio; contributed Python ingestion, time-zone, and subscription-webhook fixes.

TECHNICAL SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript, SQL
Frontend Development: Next.js, React, HTML, CSS, Three.js
Backend Development: Node.js, REST APIs, Next.js API routes, webhook handling
Databases: PostgreSQL, Supabase, MySQL
Developer Tools: Git, GitHub, pytest, Ruff, Zod, Razorpay, Google Gemini
Core Computer Science: SQL query analysis, data structures and algorithms (arrays, searching, sorting), testing and debugging

OPEN SOURCE CONTRIBUTIONS

Memori Labs | Python SDK | 3 merged PRs | PR #505 | PR #524
- Fixed OpenAI multimodal query extraction to return strings for downstream memory ingestion; added regression tests for malformed and image-containing payloads.
- Added behavioral tests for serialization safety, including private-state exclusion, circular references, and mutation isolation.

Kestra | TypeScript UI | 4 merged PRs | Merged PR
- Removed stale time-zone offset caching after daylight saving transitions and added a deterministic regression test for the New York spring change.

FlipTrack | TypeScript, Stripe | 4 merged PRs | Merged PR
- Updated Stripe webhook handling so deleted or inactive subscriptions revert to free access; guarded malformed subscription payloads.

Superplane | Go, gRPC | 1 merged PR | Merged PR
- Added integration-list unit tests for empty, populated, and cross-organization responses using authenticated gRPC context.

PROJECTS

QuerySense | Code | Live
PostgreSQL query diagnosis workbench | Next.js, TypeScript, Gemini
- Built a Next.js workbench that parses PostgreSQL SELECT queries and flags structural risks such as cross joins, deep OFFSET, and leading-wildcard searches.
- Analyzed user-supplied JSON execution plans to surface scans, row-estimate gaps, buffers, and spill indicators; compared baseline and candidate queries without executing SQL.
- Validated analysis requests with Zod and added tests for SQL/plan handling; made Gemini review optional and tied its suggestions to observed findings.

Artfolio | Code | Live
Digital art portfolio and commission platform | Next.js, Supabase, Three.js, Razorpay
- Built artwork pages and an interactive Three.js exhibition with an accessible 2D fallback for devices that cannot render the 3D gallery.
- Used Supabase Auth, Postgres, and Storage to support the studio portal, private commission tracking, and curator workflows.
- Integrated live commission intake and Razorpay checkout with server-side payment verification and release controls.

EDUCATION

Bharati Vidyapeeth College of Engineering, New Delhi
B.Tech, Computer Science Engineering | Expected 2028 | CGPA: 8.41

ACHIEVEMENTS

ECSoC 2026: Certificate of Excellence; Top 20 among 13,000+ participants. Post
Smart India Hackathon 2025: Team StackLight ranked 7th on the Batch 2 waitlist for SIH25192. Official result
XEN-O-THON: Finalist with Team Variable for Shadow Architect, a VS Code extension concept. Post
MSME AI/ML E-SDP: Completed the artificial intelligence and machine learning training programme. Post