

Kartik Dewnani

+91 8955337527 | kartikdewnani56@gmail.com | [linkedin.com/in/kartikdewnani](https://www.linkedin.com/in/kartikdewnani) | github.com/Kartik2903 | [Portfolio](#)

EXPERIENCE

Avacads EduSolutions Pvt. Ltd.

May 2026 – Present

Full-stack Engineer Intern

Bengaluru, India

- Maintained 6-table Next.js and Prisma relational database architecture for user sessions, ensuring high reliability.
- Integrated Gemini API routes to handle 3000-character payloads with under 2s response latency.
- Developed a backend progression engine that generated 5-question AI assessments to enforce 70% accuracy thresholds.

CHRIST University

Oct 2025 – Present

Technical Head, Gateways2026

Bengaluru, India

- Built a production-grade Fastify and MySQL (Drizzle ORM) backend architecture, implementing end-to-end type safety via Zod and multi-environment Docker deployments.
- Engineered secure role-based authentication with Argon2 hashing and JWTs, and automated API documentation using interactive Swagger UI.

CHRIST University

Aug 2025 – Sep 2025

Gateway CTF, Technical Event Head

Bengaluru, India

- Architected a comprehensive CTF platform using Docker Compose to orchestrate custom challenge containers and a dynamic IP conflict-detection registration system for 60+ concurrent devices.
- Engineered a real-time Python (Flask) Security Operations Center (SOC) integrating Falco, Suricata, and Zeek to track team activity and automatically penalize noisy behavior.

EDUCATION

CHRIST (Deemed to be University)

Jul 2025 – Jun 2027 (Expected)

Master of Computer Applications (MCA) (CGPA - 63.28%)

Bengaluru, India

Tirupati College of Technical Education

Jul 2022 – Jul 2025

Bachelor of Computer Applications (BCA) (CGPA - 68.23%)

Jaipur, India

PROJECTS

Cartographer – Autonomous Mobile UI Explorer | Kotlin, ADB, UiAutomator

Sep 2026

- Engineered an autonomous mobile UI traversal agent for the RevRag.ai Hackathon, leveraging BFS/DFS graph exploration with dynamic action scoring and state backtracking.
- Implemented perceptual screen hashing via 12x24 spatial grid quantization and affordance extraction, alongside a regex Safety Guard to prevent destructive actions.

Society App | React Native, Node.js, PostgreSQL, Redis, Groq LLM, Docker

August 2026

- Engineered a comprehensive community management application utilizing React Native, Node.js, PostgreSQL, and Prisma ORM, containerized via Docker for seamless cross-environment deployment.
- Integrated an intelligent triage and drafting agent using Groq LLMs and AI fallbacks, leveraging Redis for caching and session state management to enhance response reliability.

CampusLoop | Node.js, Express.js, MySQL, JWT, Multer

June 2025

- Architected 8+ RESTful APIs for a circular economy marketplace with sub-200ms response time via MySQL connection pooling and built custom Multer middleware to slash storage overhead by 40%.
- Secured 1,200+ user credentials using 12-round bcrypt hashing and JWT-based session management, significantly reducing unauthorized access attempts.

Life AI | PostgreSQL, Node.js, React Native, WebSockets

February 2025

- Engineered a PostgreSQL backend for an AI-powered journaling platform with strategic GIN and composite indexing, reducing query latency from 800ms to 110ms for 10,000+ daily entries.
- Integrated an AI RAG pipeline and WebSockets for real-time data synchronization, supporting 150+ concurrent users with under 3s staleness.

Canopy | Python, FastAPI, React, TensorFlow, GCP

December 2024

- Built an MVP forecasting dashboard in a 24-hour sprint to track greenhouse gas emissions, securing Regional Finalist recognition at NASA Space Apps Hackathon 2024.
 - Sustained 1,200 requests/minute by optimizing TensorFlow regression architecture and async batch processing across 50GB+ of raw satellite data.
- x-engage** | *JavaScript, Python, TypeScript* September 2024
- Developed an AI-powered browser extension for Twitter (X) to automate engagement, leveraging deep learning models via Python backends to generate contextual responses.
 - Engineered real-time content analysis through injected JavaScript content scripts, enhancing user productivity and social media presence.
- Pageflect** | *TypeScript, JavaScript, Next.js, React* July 2024
- Architected a scalable reading community platform designed to revolutionize book discussions and reader engagement through interactive forums and shared digital libraries.
 - Leveraged TypeScript for robust type-safety across complex React component trees and server-side logic.
- LogAggregator** | *Go, Concurrent Programming, Microservices* May 2024
- Designed and implemented a high-performance, distributed log aggregation service written natively in Go to handle massive streams of application telemetry.
 - Utilized Goroutines and Channels to ensure highly concurrent log processing, achieving minimal overhead and low-latency storage writes.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Kotlin, C++, Go, SQL, HTML/CSS
Frameworks & Libraries: React, Next.js, Vite, React Native, Tailwind CSS, Node.js, Express.js, Django, FastAPI
Cloud, Databases & DevOps: PostgreSQL, MySQL, MongoDB, Google Cloud Platform (GCP), Git, Docker, Postman
AI Tools: Gemini API, Groq/Llama, RAG Pipelines

CERTIFICATIONS & AWARDS

Data Engineering 101: The Beginner’s Guide <i>Udemy</i>	2026
Google Cloud Engineering Certificate <i>Google Cloud</i>	2026
Software Engineer Job Simulation <i>Accenture (Forage)</i>	2024
Cybersecurity & Remote Sensing Certificate <i>ISRO</i>	2024
Getting Started with Web Development <i>SAP</i>	2024
Regional Finalist <i>NASA Space Apps Hackathon</i>	2024