

UJJWAL KASHYAP

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Work Experience

Software Engineer — Hurix Digital

Dec. 2025 – Present

Products: *Factchecker*, *Illuminate*, *Dictera*

- **AI-Native Full Stack Development:** Operate as a core individual contributor delivering end-to-end frontend and backend architecture, seamlessly bridging AI capabilities with premium, production-ready user interfaces.
- **Dynamic Prompt Management System:** Engineered a comprehensive CMS workflow enabling internal teams to independently test, edit, and deploy new LLM prompts in real-time, eliminating deployment bottlenecks for AI iterations.
- **Custom Identity & Access Management:** Architected and integrated a robust Role-Based Access Control (RBAC) system spanning the core application and CMS portal, ensuring strict, tier-based security for operational data and AI tools.
- **End-to-End AI System Ownership:** Built a high-concurrency Factchecker API (FastAPI/Python), mandating a strict sequence of processing sources for its primary logic tier to ensure highly accurate, deterministic claim verification against web data.
- **Performance & Reliability:** Solved severe pseudo-concurrency bottlenecks by optimizing httpx connection pools (1000+ connections) and async execution, processing 50+ concurrent LLM verifications in under 35 seconds.
- **AI-Enabled Workflows:** Implemented hierarchical NLI (Natural Language Inference) consensus and Chain-of-Thought reasoning to drastically reduce LLM hallucinations and false refutations from messy web search data.

Software Engineer — Tercera Ventures

Jan. 2025 – Nov. 2025

Products: *Hirezy.ai*, *Dictera*

- **Building Business Software (Hirezy.ai):**
 - * Designed, built, and supported 30+ core RESTful APIs using Node.js and MySQL, serving as the primary technical owner for daily operations, debugging, and feature delivery.
 - * Integrated AI agents to automate practical business workflows (candidate evaluation), significantly reducing manual screening time for end-users.
- **System Maintenance & Improvement (Dictera):**
 - * Took ownership of legacy improvements in a live, multi-tenant SaaS architecture, resolving critical production bugs without resorting to unnecessary rewrites.
 - * Secured sensitive APIs by implementing robust session management and scalable rate limiters to protect live operational data.

Node.js Intern — Hirezy.ai (Tercera Ventures)

July 2024 – Dec. 2024

- Contributed to the core architectural design and database schema development of Hirezy.ai.
- Operated in a fast-moving Agile environment, managing deployments and version control via AWS CodeCommit and BitBucket.

Projects

Fatima Hospital Appointment Portal | *Next.js, Oracle DB, PM2, Cloudflare Tunnels*

[Live Link](#)

- **Solving Real Operational Problems:** Engineered an end-to-end web platform to digitize a physical hospital queue system, handling real-time doctor availability, shift calculations, and automated SMS verifications.
- **Legacy System Integration:** Successfully integrated a modern Next.js (React 19) frontend with a highly complex legacy Oracle 19c HIS database, utilizing Serializable isolation to prevent transaction race conditions.
- **Deployment & Infrastructure:** Managed full production deployment on the hospital's local bare-metal servers using PM2 for instance management, Nginx, and Cloudflare Tunnels for secure external traffic routing.

pAIsE: AI-Powered Expense Manager | *Next.js 14, TS, Supabase, PostgreSQL, Redis, Gemini AI*

[Live Link](#) | [GitHub](#)

- Architected a serverless financial application deploying AI to solve practical data-entry problems, utilizing Google Gemini AI for voice-powered entry and smart receipt scanning (OCR).
- Ensured high reliability and security by deploying on the Vercel Edge Network, backed by Upstash Redis for API rate-limiting and HTTP-Only JWTs.

Education

KIIT University, Bhubaneswar, Odisha – B.Tech in Computer Science & Engineering – **8.55/10 CGPA** 2021 – 2025

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, SQL, HTML/CSS

Web Development: Node.js, Next.js, FastAPI, Express.js, React

Databases: PostgreSQL, Oracle 19c, MySQL, Redis, Supabase, Prisma

Infrastructure & Tools: Docker, PM2, Cloudflare Tunnels, Nginx, AWS, Git, Celery

AI & LLM Integration: Cursor, Claude Code, OpenAI, Google Gemini