

Anant Kumar Yadav

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WORK EXPERIENCE

- W3VILLA TECHNOLOGY

Senior Backend Engineer

Noida, UP
Aug 2023 – Present

- Distributed Backend Development:** Designed and built distributed backend systems, AI services, and blockchain-integrated platforms across microservices architectures.
 - Production Systems Engineering:** Delivered production-grade APIs, high-performance data models, async job pipelines, and secure authentication workflows for large-scale applications.
 - Advanced Platform Engineering:** Led development across tokenization, AI automation, document processing, ML-driven analysis, and multi-agent orchestration systems.
- TOUT AND OWN PVT LTD

Software Engineer
- Gurgaon, HR
Feb 2021 – July 2023
- Backend Platform Development:** Built scalable backend services, optimized database architectures, developed admin panels, and implemented AWS cloud infrastructure for social, gaming, and consumer platforms.

SKILLS SUMMARY

- Languages:** Python, Node.js
- Backend Frameworks:** FastAPI, Express.js, NestJS, Sails.js, WebSockets, Serverless
- AI & LLM:** OpenAI, Open Interpreter, LangChain, Agnos, Groq Vision, Function Calling
- Databases:** MySQL, PostgreSQL, SQLite, MongoDB, Neo4j, Qdrant, Redis
- Architecture:** MVC, Monolithic, Microservice, Event-Driven
- DevOps & Tooling:** Docker, ECS, PM2, GitHub Actions, Jenkins, CI/CD, AWS
- Integrations:** Stripe, Twilio, AWS S3/SQS/SNS, Fortress, North Capital, Google Vision
- ORMs:** Prisma, Sequelize, Mongoose, WaterLine
- Version Control:** Git, GitHub, GitLab, Bitbucket

PROJECT UNDERTAKEN

- ATOM

Real Estate Tokenization Platform
- On-site
Aug 2025 - Present
- Real Estate Tokenization Platform:** Built a microservices-based backend on Base L2 enabling regulated fractional real estate investment.
 - On-Chain Compliance:** Developed ERC-3643 contracts, identity registry, escrow rules, and automated SEC compliance (Reg D/Reg S).
 - Investment Automation:** Implemented USDC funding, token minting/valuation, multi-sig custody, and automated rent distribution.
 - Platform Integration:** Delivered production APIs, admin console, KYC/AML onboarding, partner APIs, and a high-performance Prisma-MySQL-Redis data layer.
 - Blockchain Operations:** Built deployment, monitoring, and multi-network support for Base Mainnet/Sepolia with optimized gas usage.
 - Background Processing:** Automated investment, rent, and compliance workflows using Bull queues for reliable async processing.
- Tech Translate

PDF Translator Platform
- On-site
Dec 2024 - Aug 2025
- Full-Stack Platform:** Led backend & frontend development for a multilingual PDF translation system using Python, React, and AWS-S3.
 - Core Features:** Built PDF upload, translation workflows, collaboration tools, and notification systems.
 - Secure Access & Admin:** Implemented role-based authentication and admin controls for user/document management.
 - AI Vision Integration:** Integrated Google Vision OCR and deployed YOLO-based text-dimension detection for improved accuracy.
- Ruv AI

AI Model & Agent System
- On-site
Jan 2024 - Nov 2024
- Autonomous AI Agents:** Implemented Open Interpreter with a multi-agent orchestrator for coordinated reasoning workflows.
 - Neo4j Knowledge Graph:** Built graph-based storage for queries, agent interactions, and semantic retrieval.
 - Validator & Miner Network:** Integrated validators/miners via Synapse, Dendrite, and Axon for decentralized communication.
 - Semantic Routing:** Designed a router to allocate tasks dynamically based on load and performance history.

- Super One** On-site
Game & MLM Platform *Aug 2023 - Dec 2023*
 - **Graph-Based Data Storage:** Implemented Neo4j for chain data, improving scalability & relationship modelling.
 - **High-Throughput Processing:** Engineered queue + cron pipelines to process 5k–10k concurrent tasks under load.
 - **Workflow Optimization:** Optimized package and benefit workflows using advanced Node.js async patterns.
- Cachy** On-site
Social Media App & Admin Panel *Feb 2021 - July 2023*
 - **REST API Platform:** Built scalable APIs with Redis caching, improving performance by 30%.
 - **Role-Based Admin Panel:** Designed admin panel with CRM tools, analytics, and moderation workflows.
 - **AWS Cloud Infrastructure:** Deployed scalable cloud environments ensuring uptime, reliability, and cost optimization.
 - **Monetization Features:** Integrated Google APIs for in-app purchases and localized content generation.

PROJECTS

- **Test Event Management:** Built high-performance Node.js/Express APIs with optimized MySQL schemas for AI-generated questions, automated scoring, and real-time assessments. Integrated OpenAI function-calling for dynamic MCQ generation and implemented secure authentication with Google OAuth, bcrypt hashing, and RBAC.
- **Widget:** Developed a FastAPI WebSocket engine supporting low-latency AI interactions with a custom OpenAI-powered agent. Implemented persistent session management for personalized conversational continuity and improved user experience.

ACHIEVEMENTS AND CONTRIBUTIONS

- Led a week-long Generative AI training program for engineering teams.
- Received **Best Team of the Year 2024** award at W3villa for contributions to Ruv AI.
- Conducted internal sessions on Node.js and Redis to elevate backend engineering practices.

EDUCATION

- Integral University** Lucknow, UP
Master in Computer Application (MCA) *May 2025 - Present*
- DDU Gorakhpur University** Gorakhpur, UP
Bachelor in Computer Application (BCA) *May 2016 - May 2019*