

ASHUTOSH MISHRA

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Education

Vellore Institute Of Technology

B.Tech in Computer Science Engineering (AI and ML) / Specialization: E-Commerce

May 2022 - May 2026

Bhopal, Madhya Pradesh

Technical Skills

Languages & Frontend: Python, TypeScript, Rust, Next.js, React.js, Three.js, Tailwind CSS

AI & ML : LLM Transformers, RAG, AI Agents, Fine-tuning, LangChain, Pydantic, LoRA, SHAP, Scikit-learn, Pandas, NumPy, OpenAI APIs, Hugging Face

Backend : FastAPI, Node.js, Django, Celery, Asyncio, gRPC, REST APIs, WebSockets, JWT, OAuth2

Databases & DevOps : PostgreSQL, MS SQL Server, Vector DBs (Qdrant), Graph DBs (Neo4j), Docker, AWS, Azure, Git, GitHub Actions, NixOS, Playwright, LogFire

IoT & Hardware : Raspberry Pi, Linux, PLCs (Siemens S7), Twingate, Grafana, Appsmith, Snap7

Experience

TheAgentic

AI Developer

Sep 2025 – Present

Silicon Valley, USA · Remote

- Directed the Value Aligners (Cybersecurity) stack by architecting a multi-agent AI coordinator, enabling fully automated intake-to-report pipelines and improving risk assessment precision by 50% via implementing a web deepresearch agent.
- Advanced college application matching accuracy by 25% by leading end-to-end development of the Nische (EdTech) platform's full frontend, its complementary knowledge graph-based backend, and an integrated chatbot interface.
- Accelerated critical email data retrieval by 40% for the FreightX (Logistics) platform by architecting a high-throughput, thread-based agent system utilizing a novel asynchronous Unipile integration for enhanced email processing.
- Strengthened system reliability by 35% by implementing structured logging with LogFire, enhancing end-to-end LLM pipeline observability and drastically reducing critical debugging and issue resolution time by 60%.

TheAgentic

AI Developer Intern

Apr 2025 – Aug 2025

Silicon Valley, USA · Remote

- Engineered predictive AI agents for the Wizearly (EdTech) CRM to identify at-risk students and launched a text-to-SQL interface, automating support interventions and reducing administrator data retrieval time by 50%.
- Boosted logistics team's operational awareness and incident response time by 30% by developing a robust Discord webhook agent, which was architected to deliver persistent, high-priority, real-time operational alerts 24/7.
- Upgraded the agent platform by streamlining CortexON orchestrator with new SDKs and refactored prompts, engineering a real-time MCP UI monitoring dashboard, accelerating agent deployment by 40% and response times by 25%.
- Increased key social media engagement metrics by 35% by building a multi-functional cross-platform automation agent for intelligent content scheduling, AI-driven content generation, and automated engagement tracking.

ibentosAI

AI Research Intern

Sep 2024 – Mar 2025

Ontario, Canada · Remote

- Augmented 3D user interaction and boosted AI response accuracy by 20% by fine-tuning conversational models and collaborating with the Metaverse team to seamlessly integrate them into immersive virtual environments.
- Elevated overall reliability by 25% by developing sophisticated AI-powered automation tools that optimized complex internal workflows, secured API communications, and streamlined real-time data processing.
- Lifted user engagement by 35% by designing a lightweight, plug-and-play iframe popup for seamless client website integration, enabling instant, no-code deployment for non-technical users and simplifying onboarding.
- Reduced critical response latency by 30% by refactoring complex asynchronous event processing from legacy recursive callbacks to modern, maintainable async/await loops, improving code readability and performance.

D2i Technology

Software Engineer Intern

Jun 2024 – Sep 2024

Noida · Hybrid

- Achieved 99.9% real-time remote monitoring uptime for Siemens S7-1200 PLCs by engineering a complete IoT telemetry system on a Raspberry Pi 4, interfacing via the Snap7 protocol for industrial-grade data acquisition.
- Bolstered system scalability and data integrity by deploying containerized MS SQL Server instances in Docker, significantly reducing query latency by 35% in high-demand, high-concurrency industrial scenarios.
- Boosted user engagement by 50% and amplified operational insights by creating a fully interactive, real-time analytics dashboard, leveraging Grafana and Appsmith for a superior and more intuitive user experience.
- Cut network latency by 30% and enhanced system fault tolerance by devising an innovative hybrid network architecture that securely merged the Twingate zero-trust network with localized edge computing.