

Nikunj Khitha

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TECHNICAL SKILLS

Languages & Databases: TypeScript, Python, Java, PHP, JavaScript, Dart, PostgreSQL, MongoDB, Firebase, Elasticsearch.

AI/ML: Bedrock AI, Azure AI, Gemini AI, Prompt Engineering, Unslloth, Agentic AI, LangChain, MCP, Claude, Crew AI.

Full Stack Development: ReactJS, NodeJS, NextJS, FastAPI, Spring Boot, Flutter, Apache Kafka, Express, Prisma, RabbitMQ, OkHttp.

DevOps: Azure, AWS, Google Cloud, CI/CD, Docker, GitHub Actions, Nginx, Traefik, Kubernetes, Jenkins, Grafana, Dozzle.

Testing Automation: Selenium, Rest Assured, Jest, PyTest, Deepeval, Junit, Test NG, Playwright, Cucumber, JMeter, Deepeval.

Tools: Git, GitHub, Hugging Face, OpenWeb UI, Vercel, Swagger, Auth0, Postman, Allure, Report Portal, AgentOsp, n8n.

PROFESSIONAL EXPERIENCE

Armorcode Inc. 🌐

Jan 2025 – present | Gurugram, India

Automation Intern

- Co-developed a **Spring Boot** test framework using **Playwright**, **TestNG** (with **Factory** and **Data Providers**), **MongoDB**, and **PostgreSQL** to enable **dynamic, parallel, multi-threaded test execution** and **runtime test data management/cleanup**.
- Deployed **Report Portal** on **AWS EC2** using **Docker Compose** and developed custom plugins (**Java Spring Boot**, **ReactJS**); built a **CrewAI** agent with **Bedrock (Claude)** to query **Report Portal APIs** and visualize test data using **Mermaid**.
- Completed internal **AI challenge**: Automated documentation for **250+ security tool integrations** using **CrewAI**, **AWS Bedrock**, and **MCP**; **cut update latency from 72h to 45m**, achieved **98.6% accuracy**, and ensured **audit trails** with **PR-based Confluence publishing**.
- Implemented **AI Prompt-based locator auto-heal**, reducing **UI test case flakiness by 99%** and decreasing **false alarms in automation reports**.
- Developed **auto test categorization** and **test case discovery** features, alongside implementing **automatic first and second-level GitHub PR reviews** using **n8n automation pipelines**.

Xansr Software Private Ltd. 🌐

Jun 2024 – Jan 2025 | Remote

SDE Intern

- Developed **microservices** using **Node.js (TypeScript)** and **FastAPI**, achieving **100% test coverage** via **TDD** and improving **API performance by 40%**.
- Designed **CI/CD pipelines** with **Docker** and **GitHub Actions**, reducing **deployment time by 42%** and streamlining workflows.
- Built **Fantasy GPT**, an **SQL RAG-based chatbot** leveraging **LangGraph**, **model fine-tuning**, and a **multi-step reasoning agent**, to achieve **98% accuracy** in answering Fantasy sports-related questions.
- Engineered **AIKO**, a **personalized sports media assistant**, delivering **96.67% accurate, AI-generated highlights** with **real-time commentary** and user interactions, built on a comprehensive **microservices architecture**.
- Designed and developed scalable **ETL pipeline APIs** using **MSSQL Database** and **SQLAlchemy**, leveraging **Azure Logic Apps** to automate data ingestion, resulting in enhanced scalability and **100% data accuracy**.

Central Electricity Authority, Government of India 🌐

May 2023 – Jul 2023 | New Delhi, India

Software Development Intern

- Enhanced data accuracy by **30%** on a **Renewable Dashboard** monitoring **150+** power stations, integrating with the **National Power Portal** using **Java**.
- Spearheaded the development of a **File Management System** using **PHP** and **MySQL**, implementing **Role-Based Access Control (RBAC)** to secure access. Optimized storage for over **5,000** files, reducing retrieval time by **25%**.
- Built a **MERN based Conference Room Booking System**, cutting booking time by **60%** and reducing errors by **40%** across **10+** rooms, significantly improving employee efficiency.

PROJECTS

LLaMa-MCP-Streamlit | Python, MCP, LLaMa, Streamlit, Nvidia NIM, Ollama, Azure Open AI, Open AI 🌐

- Developed a full-stack AI application using **Python** and **Streamlit**, showcasing real-world integration of **Large Language Models (LLMs)** via the **Model Control Protocol (MCP)**; achieved **40+ stars** and **10+ forks** on **GitHub**.
- Engineered a client to connect the **AI model** with **external tools**, creating a practical use case for the **open-source MCP** standard.
- Achieved **industry recognition** by being featured on the **official MCP server directory (mcp.so 🌐)** and the **PulseMCP 🌐** community hub for **innovation and effective** implementation, earning over **40 GitHub stars** and **10 forks**.

AI-Driven Jira Reporter (ADJR) | Node JS, Fast API, Nvidia NIM, Ollama, Azure Open AI, Open AI, Jira API 🌐

- Developed & integrated **2 APIs** in a **Microservice** for automating **daily scrum report generation** from **Jira**, enhancing team efficiency by **30%** through **AI-driven insights** & **automated scheduling** with **Dockerized deployment**.

HACKATHONS & ACHIEVEMENT

IBC2024 | IBC Convention Amsterdam 🌐

Sep 2024 | Amsterdam, Netherlands

Showcased **AIKO** to **500+** attendees, collaborating with **Verizon**, **AMD**, **HP**, and **Al Jazeera** at a leading media tech event.

EDUCATION

The NorthCap University 🌐

2021 – 2025 | Gurugram, India

B.Tech CSE in Full Stack Development | CGPA: 8.16