AKSHAY GAUTAMBHAI KATHIRIYA

Surat, Gujarat, India

+91 6351273626 akshaykathiriya789@gmail.com linkedin.com/in/akshay-k github.com/KathiriyaAkshay

Education

Birla Vishvakarma Mahavidyalaya Engineering College **July 2019 - May 2023**

Bachelor of Technology in Information Technology (CPI: 8.01) *Anand, Gujarat*

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, SQL
Frontend: React.js, Next.js, Redux, Tailwind CSS, Ant Design, HTML5, CSS3
Backend: Node.js, NestJS, Express.js, Loopback 4, GraphQL, Payload CMS
AI & Data: LangGraph, Claude 3.5 Sonnet, RAG Pipelines, Milvus (Vector DB), Redis, BullMQ
Cloud & DevOps: AWS (Lambda, SQS, Athena, ECS, CloudWatch), Docker, GitHub Actions, CI/CD
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB

Experience

Keytoz Pvt Ltd **Dec 2024 – Present**

Full Stack Developer *Surat, Gujarat*

- **Project: Robotesta (AI-Native Automation Platform):**
- Architected a core AI engine using **NestJS**, **LangGraph**, and **Claude 3.5 Sonnet** to automatically generate production-ready Playwright test suites directly from Jira tickets, reducing manual QA scripting time by 60%.
- Engineered a **RAG (Retrieval-Augmented Generation)** pipeline with **Milvus** vector database to inject project context (PDF specs, GitHub repositories) into LLM prompts, ensuring high-fidelity code generation.
- Developed a high-performance dashboard using **React.js** and **NestJS**, featuring real-time chat interfaces and live test execution logs powered by **Redis** and **BullMQ** on AWS ECS.
- **Project: Master Anesthesia (EdTech Platform):**
- Led the development of a medical education platform using **Next.js** and **Tailwind CSS**, successfully migrating legacy course and quiz data from a basic **WordPress** implementation to a modern **Payload CMS** backend.
- Engineered premium interactive features for purchased courses, integrating custom text highlighting and full-mode audio playback for lesson content.
- Deployed the entire infrastructure on **AWS** using **Docker** containers and established automated CI/CD workflows via **GitHub Actions** for rapid release cycles.

Prestious IT Solution **Oct 2023 – Nov 2024**

Full Stack Developer *Surat, Gujarat*

- **Project: Somnoware (Healthcare Platform):** Contributed to the development of a HIPAA-compliant sleep apnea monitoring system, building RESTful APIs with **Loopback 4** and responsive UI components using **React.js**.
- Implemented system-level patient data filtering modules querying a **MySQL** database, allowing clinicians to efficiently retrieve records based on specific clinical criteria like AHI and adherence scores.
- Integrated **Twilio APIs** to enable SMS and video communication features for patients and assisted senior developers in maintaining EMR data synchronization services.
- Utilized **AWS CloudWatch** to monitor application logs and debug production issues, while working with **AWS SQS** to handle asynchronous message processing within the microservices architecture.

Solute Labs **Jan 2023 – Sep 2023**

Software Engineer Intern *Ahmedabad, Gujarat*

- Migrated legacy monolithic applications from Node.js/Express to **NestJS** microservices, improving code maintainability and scalability.
- Developed high-performance APIs using **GraphQL** and Hasura, and managed database schema migrations from MongoDB to **PostgreSQL**.
- Containerized applications using **Docker** to standardize development environments and streamline deployment pipelines.

Projects

Form Details Reader | *Python, OpenCV, OCR, MySQL* **4**

- Built a desktop application using Python and **OpenCV** to digitize physical forms via OCR, automatically extracting and verifying text data for storage in MySQL.