

# Amay Mani Tripathi

Portfolio: Amay mani Tripathi 🐙

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## EDUCATION

### VIT-AP University

B.Tech in Computer Science with Business Systems

Amaravati, Andhra Pradesh

Aug. 2022 – Aug 2026

## EXPERIENCE

### Alesa Ai Ltd.

Full Stack Developer Intern

March 2025 - Present

Remote - UK

- Worked on the development of different SaaS applications. Integrating LLM models to get optimised responses. Optimization of data fetching in server-side rendering using Next.js and Django as the backend framework.
- Contributed to 2 main applications. One is FOI Engine, which provides a platform to request data from 322 UK councils and raising ICO complaints against the councils if requested data is not provided.
- The Tangent Mind, an AI-based astrology application which does 8 different types of tarot reading, horoscope, and dream interpretation. Implemented LLM model, session authentication and multiple profile optimizations.

## PROJECTS

### OhMuse - Anonymous AI Social Media Application 🐙 | Next.js, MongoDB, Node.js, AWS S3, DeepSeek

- Developed a scalable backend architecture, optimizing database queries and API performance to handle high traffic efficiently.
- Implemented AWS S3 for image storage, reducing server load and improving media retrieval speed.
- Optimized search querying for fast and efficient user discovery. Search API calls reduced by 20%.
- Enhanced scalability by implementing pagination and infinite scrolling, ensuring smooth performance without overloading the server.

### OTC BLAND - AI Powered Crypto Order Sim by Voice 🐙 | Next.js, MongoDB, Tailwind CSS, Node.js, Bland AI

- Developed a full-stack AI-powered OTC trading platform using Next.js 14, MongoDB, and Bland API, enabling users to create and manage orders through conversational agents with 100+ API calls/day capacity.
- Integrated webhook-based data handling to process and store post-call information from Bland AI agents, enabling real-time updates and reducing latency issues in asynchronous communication workflows by 25%.
- Implemented secure user authentication with NextAuth.js and integrated real-time market data fetching via REST APIs, improving user experience and system responsiveness by 30%.

### Strocker - Real-time Stock Portfolio Tracker 🐙 | Next.js, MongoDB, Tailwind CSS, Node.js, Framer Motion, Finnhub AP

- Engineered a real-time stock portfolio tracker utilizing Next.js for seamless performance and scalability.
- Implemented modern design and UI with advanced animations using Framer Motion, ensuring an enhanced user experience without compromising usability.
- Primarily focused on frontend development while integrating authentication, secure routing, and CRUD operations for a robust and secure pocket tracker.

### Electro Buck - IOT-BASED Electricity Consumption Tracker 🐙 | Arduino, Nextjs, Firebase

- Designed an IoT solution to track real-time electricity consumption, reducing energy usage for users across 10+ appliances.
- Utilized Arduino to collect sensor data with 95% accuracy, ensuring precision for each connected device.
- Implemented real-time data synchronization between hardware and web application, with 99% uptime for instant consumption insights.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Solidity, JavaScript, Typescript, HTML/CSS, Postgres, MongoDB

**Frameworks:** React, React Native, Node.js, Next.js, Django, Tailwind CSS, Framer Motion, Material-UI, Express

**Developer Tools:** Git, Docker, AWS, Jira, VS Code, PyCharm, IntelliJ, Adobe Illustrator, System design, HSL HTTP streaming,

**Libraries:** pandas, NumPy, Matplotlib, Tensorflow, Sklearn