Amay Mani Tripathi

Portfolio: Amay mani Tripathi ✑

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EDUCATION

VIT-AP University   Amaravati, Andhra Pradesh
B.Tech in Computer Science with Business Systems   *Aug. 2022 – Aug 2026*

EXPERIENCE

Alesa Ai Ltd.   March 2025 - Present
Full Stack Developer Intern   *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.

Smart India Hackathon - Group Leader   2023
Smart Hospital Appointment System

- Led a team of 6 in building an RFID-based attendance and appointment system, reducing queue wait times by 80% and improving appointment scheduling efficiency by 75%.
- Developed a full-stack application using Next.js, MongoDB, and Node.js, capable of handling over 1,000 user appointments daily without any cost.

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.

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