

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

RBT Vidayala

10th - 90.4

Deoria, Uttar Pradesh

2019

Oxford Public School

12th - 76

Gorakhpur, Uttar Pradesh

2021

EXPERIENCE

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.

CSI CHAPTER

2023

VIT-AP University

- Redesigned and maintained the official CSI website, boosting render time by 2 times through enhanced UI/UX.
- Provided real-time technical support for over 100 participants during live events, ensuring zero downtime.

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 API*

- 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++, Java, Python, Solidity, JavaScript, R, Typescript, HTML/CSS, R,SQL (Postgres), Latex

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

Developer Tools: Git, Docker, AWS, VS Code, PyCharm, IntelliJ, Adobe Illustrator

Libraries: pandas, NumPy, Matplotlib, Tensorflow, Sklearn