

# Kanne Naga Amaresh

✉ [nagaamareshkanne12@gmail.com](mailto:nagaamareshkanne12@gmail.com) | ☎ +91 6304196352

 [Github](#) |  [LinkedIn](#) |  [Portfolio](#)

## Skills

**Languages:** Java, Python, JavaScript, TypeScript, SQL.

**Technologies & Tools:** React.js, Express.js, Node.js, MongoDB, Next.js, Docker.

## Work Experience

**EdTechMarks, Bangalore** Nov-23 (2023) - Nov-30 (2025) *Software Development Intern*

• **AI-Driven Incident Monitoring & Auto-Recovery System ( June 2025 - Nov 2025 )**: Contributed to the development of an automated incident management system to minimize service downtime caused by server failures. Implemented monitoring workflows using Nagios to detect Tomcat server outages and identify failure reasons in real time. Integrated incident creation in ServiceNow, triggering backend webhooks to initiate AI-driven remediation workflows. Collaborated on an AI-assisted resolution pipeline where trained agents analyze incident details and automatically apply corrective actions to restore services. Built frontend dashboards to visualize incident details and step-by-step recovery actions performed by AI agents, improving transparency and operational visibility.

**Technologies:** React, Redux Toolkit, Nagios, Apache Tomcat, ServiceNow, Webhooks.

• **Interactive 3D Visualization Platform ( July 2024 - Nov 2024 )**: Designed and developed a web-based system that generates interactive 3D models based on user-provided object names. Implemented real-time 3D interaction features including rotation, scaling, and camera controls using mouse input, along with gesture-based model manipulation through hand-movement detection. Integrated VR support to enable immersive model visualization using VR headsets. Architected a multi-layer model exploration flow where internal object parts are dynamically generated by leveraging AI services (Gemini AI / GPT-4o) for image creation and Meshy AI for 3D model generation. Automated the pipeline to store generated GLB models in cloud storage and render them in the browser using Three.js.

**Technologies:** React, Node.js, Express.js, MongoDB, Three.js, MERN Stack, AI APIs (Gemini AI, GPT-4o), Meshy AI, Cloudinary, WebXR / VR.

## Education

- **Presidency University Bengaluru** Aug 2019 - Jun 2023 BTech. in **CSE CGPA: 7.04/10.**
- **Narayana Jr College Kurnool** Aug 2017 - Jun 2019, 12 th Grade. **CGPA: 9.94/10.**
- **Zilla Parishad High School Chagalamarri** Aug 2016 – Jun 2017, 10 th Grade. **CGPA: 8.5/10.**

## Project Work

- **Mucchatlu (2025):** Designed and developed a real-time chat application using the MERN stack with TypeScript, following a microservices architecture. Implemented one-to-one and group messaging with user and group discovery, profile viewing, and chat initiation using Socket.IO for real-time communication. Built secure authentication and authorization flows, utilizing Redis for OTP storage and verification. Integrated RabbitMQ for asynchronous notifications and containerized services using Docker.

**Technologies:** React, TypeScript, Node.js, Express.js, MongoDB, Socket.IO, RabbitMQ, Redis, Docker.

## Awards and Certificates

- Backend Development – Apna College
- Frontend Development – Sheriyans Coding School
- Full Stack Development – Besant Technologies
- [Three.js](#) – Sheriyans Coding School