

Ganeswar Velvadapu

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EDUCATION

Indian Institute of Technology Hyderabad

B.Tech Materials Science and Metallurgical Engineering

Hyderabad, India

Aug. 2023 – May 2027

Sri Chaintanya Junior College

Board of Intermediate Education, Andhra Pradesh

Vijayawada, Andhra Pradesh

Aug. 2021 – May 2023

EXPERIENCE

Web Developer – MSME, Civil Depts. & Smith, SmartX Labs

March 2025 – Present

IIT Hyderabad

- Architected an integrated payload CMS, unifying content delivery for the MSME and Civil departments alongside the Smith and SmartX research labs.
- Containerized the full application stack using Docker and configured an NGINX reverse proxy for secure, scalable deployment.

Frontend Developer NANOX - IIT Hyderabad

September 2024 – Jan 2025

IIT Hyderabad

- Engineered the frontend for the NANOX research group with React and deployed the live application on AWS EC2 for robust hosting.
- Implemented a Google Docs API integration to function as a simplified CMS, empowering professors to directly manage and update website content

PROJECTS

Startup Studio | GoLang, Gin, React, PostgreSQL, Docker

- Built a full-stack mentorship platform from scratch using a Go (Gin) backend, React frontend, and PostgreSQL database to connect startups with mentors.
- Containerized the application with Docker and deployed it to a production environment on AWS EC2, implementing Caddy as a reverse proxy for automated HTTPS.
- Implemented role-based access control (RBAC) for distinct user types and engineered a custom mentor verification workflow with email notifications to ensure platform integrity.

Bioverse | Python, FastAPI, Flutter, PostgreSQL

- Developed a full-stack, cross-platform application using Flutter for the frontend and a Python-based backend with the FastAPI framework
- Engineered a secure user authentication system from the ground up, implementing JWT for token-based authorization.
- Integrated geolocation features using the Geolocator package to enable location-based reporting, and managed application state efficiently with the Provider package in a multi-platform environment.

TECHNICAL SKILLS

Languages: Go Lang, Python, Dart ,C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: Go/Gin, Flutter, React, Express JS, FastAPI, Next JS

Developer Tools: Git, Docker, AWS

ACHIEVEMENTS

MILAN - IIT Hyderabad

September 2024

- 3rd Place in MILAN - Hackathon conducted by Lambda IIT Hyderabad! 'Community App for IIT Hyderabad' (2024).