Manohar Naga

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Education

IIIT Hyderabad   **Nov 2021 – May 2025**
B.Tech in Computer Science Engineering, CGPA: 8.50/10.0

Experience

Game Theory   **May 2024 – Jul 2024**
Software Engineer Intern   *Hyderabad, Telangana*
- Built **4+ annotation tools** from ground up for object and human tracking, supporting both video and image inputs.
- Achieved **25x** reduction in frame load latency (from **5s to 0.2s**), a significant performance boost over previous tools.
- Optimized UI for annotation tools, improving workflow efficiency and reducing annotation time by **4x** (from **16 hours to 4 hours** per video(7500+ frames).

Crop Darpan   **Jan 2024 – May 2024**
BTech Project - Data Sciences and Analytics Center   *Hyderabad, Telangana*
- Designed and developed a Firebase-based **user log** storage system, integrated it into the existing app, addressing **Expo SDK 48** limitations through dependency resolution and streamlined **APK** generation, added comprehensive documentation for maintenance.

Teaching Assistant   **Jan 2024 – Mar 2024**
CS8.301 Introduction to Information Security
- Prepared problem sets,conducted exams,tutorials and office hours for the overall comprehensive learning of the students.

Shadow Media Productions   **Feb 2023 – May 2023**
Full Stack Developer Intern   *Hyderabad, Telangana*
- Developed **movies page(both UI and backend)**, which supports all CRUD operations for a movie.
- Worked with **google firebase** to build high quality movie posters page(**15MB+**) and authentication page which supports SignIn/SignUp with Gmail/PhoneNo.

Projects

MemeMaker | *React-Native, APIs, K8s*   **Code**
- Designed and developed a MemeMaker mobile app, featuring a canvas for users to add/rotate/resize text, integrated Stable Diffusion model API to generate meme images from text input.Currently building a scalable microservice architecture based system with docker and kubernetes.

Greddit | *MERN Stack, Firebase, Docker*   **Code**
- Developed a full-stack social media MERN app like Reddit and dockerised it for easy deployment.
- Key features include - authentication(Firebase), authorization(JWT), profile and subgreddit pages, post interactions (like,comment), large profile picture uploads (15MB+), user joining requests, admin controls, banned keywords, fuzzy search and more.

DataSphere | *BUC, AOI, Apriori*   **Code**
- Developed an OLAP project that extracted interesting datacubes using the BUC algorithm with optimizations (external sorting, hash partitioning, iceberg cubes) and derived characteristic rules through attribute-oriented induction.Developed a Movie recommender system using Apriori Algorithm.

IKIT (Idea Kit) | *Webflow, No-Code Tools, Responsive Design*   **Live Demo**
- Built a clean, responsive web app in Webflow using modern No-Code tools to showcase project ideas with dynamic UI and CMS features.

Technical Skills

Languages: C/C++, Python3, HTML/CSS, JavaScript, SQL, Bash
Technologies/Frameworks: React.js, Express.js, Node.js, Next.js, MongoDB, React-Native, Firebase, Git, Github, Docker
Fundamentals/Tools: DBMS, Operating Systems, TCP/IP, OOPs, GNU/Linux, Windows

Relevant Coursework

Distributed Systems, Software Systems, Operating Systems, Computer Networks, Computer Systems.
Data Structures, Algorithms, Data Analytics, Probability and Statistics, Linear Algebra.

Achievements

- Progressed to *Round 2* in **MetaHackerCup2023** - Global Rank(2934).
- Achieved 5-star **Gold Level** in SQL, the highest certification for SQL expertise on HackerRank - **Profile**
- Got Placed in **Dean's List**, top *10%* of our batch for Academic Excellence in Monsoon 2021.