Giridhar Talla

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EDUCATION

National Institute of Technology Kurukshetra — Haryana, India
Bachelor of Technology in Electronics; Cumulative GPA: 9.04/10 — *Aug 2019 – Jun 2023*

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming using C++, Database Management Systems, Computer Networks, Introduction to Machine Learning, Computer Systems Architecture

Narayana Junior College — Vijayawada, India
Class XII – Mathematics and Science; Cumulative GPA: 9.98/10 — *Jul 2017 – Jun 2019*

EXPERIENCE

Hero Fincorp — Banglore, India
Software Engineer — *Jul 2023 – present*

- Enhanced system performance and reliability across **10+** critical modules by optimizing backend services in **Python**, which resulted in a **30%** reduction in system response times and a **25%** decrease in error rates
- Integrated over **5** external **fintech** workflow **APIs** end-to-end, automating complex financial operations, streamlining data processing and validation, and improving deployment stability by **15%**, while reducing manual intervention
- Contributed to significant UI redesign initiative in **Next.js**, delivering a more accessible and consistent user experience that cut internal workflow turnaround times by **40%** and boosted new feature adoption by **20%**

Cloutflow — Gurugram, India
Software Engineer Intern — *Jan 2022 – Jun 2022*

- Developed and deployed **8+** features for the company's SaaS platform, enhancing both **web and mobile app** capabilities using **React** and **React Native** improving overall user experience for hundreds of daily users
- Collaborated with a cross-functional team of **5** to implement real-time data collection and analysis tools, enabling complete tracking of influencer campaigns and improving campaign insight accuracy by **30%**

PROJECTS

Farmware - Soil moisture analysis using satellite imagery | *React, Node.js, Convex* — **Website / Github**

- Built a full-stack soil moisture analysis tool in a **48-hour** hackathon with a globally distributed team, winning the **'Best Startup Idea'** award. The application empowers farmers to remotely assess soil conditions by processing real-time **Sentinel-2** satellite data with **Next.js** and **Convex**
- Implemented a robust **serverless backend** on Convex to optimize data delivery, featuring an **caching** layer for multi-spectral satellite images from the Sentinel Hub API. This system provided the critical data foundation for a responsive, **map-based** frontend built with **React** and **Leaflet** for interactive soil moisture visualization

Hypr App - Trading Signal Generation Using Sentiment Analysis (NLP) | *FastAPI, React* **Website / Github**

- Architected a **microservices**-based application featuring a containerized **FinBERT** model and a data pipeline aggregating from **5+** external APIs (Finnhub, OpenAI, Reddit). This decoupled design separated the resource intensive AI service from the main application, improving maintainability and enabling independent scaling
- Engineered a real-time, non-blocking UI by streaming live analysis progress via **Server-Sent Events (SSE)** and broadcasting market data with **WebSockets**. This approach successfully handled a **30+** second data pipeline, ensuring a responsive user experience during complex background processing

TECHNICAL SKILLS

Languages & Technologies: Python, JavaScript, TypeScript, SQL, Apex, Java, C/C++, HTML/CSS
Frameworks & Libraries: React, Next.js, Node.js, FastAPI, Flask, WebSockets, SSE, Scikit-learn, TensorFlow
Tools & Platforms: Git, Docker, Postman, Firebase, PostgreSQL, MongoDB, Salesforce, GitHub Actions, VS Code

ACTIVITIES

- Served as **Technical Lead** for a team of 5 organizing 500+ participant hackathon (**STEM Warrior Hacks**, Winter 2022)
- Acted as **Project Manager & Team Coach** for a 48-hour non-profit website build (**48 in 48 Global Event**)
- Actively contribute to the tech community by organizing and participating in global hackathons and coding events

ACHIEVEMENTS

- Awarded **1st place** in the Xata Holiday Hackathon (2023) for developing **FormUlate**, an AI tool to create and share forms
- Secured **2nd place** in the Hackmamba Content Hackathon (2022) for building a full-stack app called **Scrapbook**
- Certified in **Full-Stack Web Devlopement & Docker** (U. Helsinki) and **CS50x & SQL** (Harvard)