

# VEGA DARSI

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## 📄 Summary

Computer Science student building full-stack applications, AI-driven tools, and operational software with a strong interest in thoughtful UI, developer experience, and scalable backend systems. Experienced with TypeScript, React, Node.js, PostgreSQL, and modern deployment workflows across production projects, hackathons, and client systems. Currently exploring orchestration systems, concurrency, and backend infrastructure while continuing to design software that feels intentional to use.

## 🧠 Technical Skills

### Languages

TypeScript/JavaScript, Python, Go (learning), SQL, C/C++

### Backend & Systems

Node.js, Express.js, REST APIs, PostgreSQL, MongoDB, Concurrent Worker Architectures, Distributed Systems Fundamentals

### Frontend

React.js, Next.js, Tailwind CSS

### Tools & Infrastructure

Git, Docker, Linux, Vercel, Railway, Cloudflare Workers

### ML & Data

scikit-learn, Pandas, NumPy, LLM APIs

## 📁 Experience

### Full Stack Web Developer Intern, *Linchpin Soft Solutions* 04/2026 – Present | Hyderabad, India

- Developing production-grade operational software and internal tooling across logistics, CRM, and workflow systems.
- Built and deployed full-stack applications using TypeScript, Next.js, Node.js, PostgreSQL, and MongoDB.
- Worked across frontend engineering, backend systems, deployment workflows, and debugging in client delivery environments.
- Collaborated on scalable multi-role dashboards, operational workflows, and automation-focused tooling.

## 🎓 Education

**Bachelor of Technology in Computer Science and Engineering**, *NxtWave Institute of Advanced Technologies (NIAT) Affiliated with Chaitanya Deemed to be University*  
2024 – 2028 | Hyderabad, Telangana, India  
CGPA: 7.8

**IB Diploma – Computer Science HL, Physics HL**,  
*Aga Khan Academy, Hyderabad*  
2020 – 2024

## 📁 Projects

### PulseQueue, *Distributed Workflow Engine (In Progress)*

Go, PostgreSQL, Docker

- Building a distributed workflow engine focused on concurrent job execution, retries, delayed scheduling, and fault-tolerant task processing.
- Designing concurrent worker-pool architectures using Go routines and channel-based task coordination.
- Exploring persistent queue storage, retry semantics, exponential backoff, and observability for reliable asynchronous execution.

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## Achievements

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### **1st Place — Build a Static Website Hackathon (NIAT, 2024)**

Built “CyberSafe,” an interactive cybersecurity awareness platform focused on phishing detection, password safety, and online privacy education.

### **Finalist — Matrix Protocol Aldea Hackathon (2025)**

Developed ML-based borrower income estimation and repayment scoring pipelines using structured and alternative datasets.

### **FIRST LEGO League National Championship Qualifier,**

*Lead Programmer, Robotics Team*

### **Founder & Lead, School Chess Club**

- Developing benchmarking and metrics tooling to analyze throughput, queue latency, and worker utilization.

### **TrueLend CRM,**

*Next.js, Turborepo, PostgreSQL, Cloudflare Workers, Drizzle*

- Developed an enterprise CRM monorepo supporting DSA management, operational workflows, and scalable multi-role dashboards.
- Designed modular backend architecture using Turborepo and PostgreSQL-based relational workflows.
- Implemented deployment and edge infrastructure workflows using Cloudflare Workers and modern TypeScript tooling.
- Worked with structured operational workflows involving reporting, client lifecycle management, and internal tooling.

### **LinchpinStudio,**

*Next.js, React, PostgreSQL, UploadThing, OpenRouter*

- Built a multi-role SaaS platform supporting client, admin, and influencer workflows with production-oriented business logic.
- Developed authenticated dashboard systems, media workflows, and operational management interfaces.
- Integrated AI-assisted tooling and asynchronous workflow handling into production application flows.
- Deployed and maintained the platform on Vercel with PostgreSQL-backed persistence.

### **Sentinel (NIAT Agentathon),**

*FastAPI, React, Groq, Llama 3.3*

- Developed a multi-agent intelligence system with routing pipelines and modular task orchestration workflows.
- Built mission-control style interfaces for coordinating AI agent execution and response monitoring.
- Implemented asynchronous backend workflows using FastAPI and LLM-driven processing pipelines.
- Designed modular architecture patterns for extensible multi-agent coordination systems.

### **Spice Express Logistics, MERN, TypeScript, Tailwind CSS**

- Developed a logistics management platform supporting dispatch workflows, invoicing, real-time tracking, and Proof-of-Delivery uploads.
- Engineered customer-specific freight pricing logic and operational APIs using Node.js and MongoDB.
- Built mobile-friendly operational interfaces for logistics and courier management workflows.
- Designed backend systems focused on operational reliability and workflow automation.