

KAKARLAPUDI SURYANSH VARMA

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EDUCATION

VIT-AP University, Amaravathi, Andhra Pradesh

Sept 2023 – July 2027

B.Tech in Computer Science & Business Systems • CGPA: 9.08 / 10.0

PROJECTS

SheetFlow — Real-time Collaborative Spreadsheet

Mar 2026

Tech Stack: Next.js 14, TypeScript, Supabase, PostgreSQL, Tailwind CSS

- Built a real-time collaborative spreadsheet supporting live multi-user editing with presence indicators and <100ms cell sync latency using Supabase Realtime channels.
- Engineered a custom formula engine from scratch handling arithmetic expressions, aggregate functions (SUM, AVG, COUNT), and Excel-style auto-fill with series detection, without any third-party formula library.
- Architected conflict-free concurrent editing for 10+ simultaneous users using optimistic updates and server-side reconciliation.

NiftySignal — NSE Market Predictor

Dec 2025 – Mar 2026

Tech Stack: Python, Scikit-learn, Pandas, Matplotlib, NSE API

- Built an ML-driven financial forecasting tool on NSE historical data using LSTM and ensemble models to predict short-term market trends with ~72% directional accuracy on test data.
- Engineered automated data pipelines to process 5+ years of time-series OHLCV data, handling missing values, feature engineering, and normalization for model training.
- Implemented interactive dashboards visualizing 12+ technical indicators (RSI, MACD, Bollinger Bands) to support informed trading decisions.

Smart Commerce — Full-Stack E-Commerce Platform

Apr 2026 – Jul 2026

Tech Stack: Java, Spring Boot, Spring Security, JWT, PostgreSQL, Next.js, React, TypeScript, Tailwind CSS, Axios, Docker, Swagger

- Engineered a production-style full-stack e-commerce platform featuring JWT authentication, role-based authorization, product management, shopping cart, checkout, and order processing using Spring Boot and PostgreSQL.
- Designed and integrated 20+ REST APIs with a Next.js frontend, implementing centralized Axios services, protected routes, persistent authentication, and responsive user interfaces.
- Built a scalable backend architecture with Spring Data JPA, Hibernate, BCrypt, global exception handling, Docker support, and OpenAPI/Swagger documentation, emphasizing modular design and secure API development.

Neighborhood Carpool Coordination Platform

Jun 2026 (3-week sprint)

Tech Stack: React, Python (FastAPI), AWS Lambda, Amazon ECR

- Built a full-stack carpool coordination platform in a 4-person team, enabling users to create, join, and manage carpool groups by location and destination, using a React frontend and FastAPI backend.
- Deployed carpool-matching logic on AWS Lambda and containerized backend services using Amazon ECR, testing both frontend and backend on AWS infrastructure.
- Delivered the project end-to-end within a 3-week timeline using shared GitHub version control for collaborative development.

TECHNICAL SKILLS

Expert: JavaScript, TypeScript, React.js, Next.js 14, HTML5, CSS3, Tailwind CSS

Proficient: Java, Spring Boot, Python, FastAPI, SQL, Node.js, Express.js, PostgreSQL, MongoDB, Supabase, RESTful APIs, Maven, AWS (Lambda, ECR, EC2)

Familiar: C++, Git, Postman, JWT, Docker

ML & Data: Time-series Analysis, Pandas, Scikit-learn, Predictive Modeling, Data Pipelines

ACHIEVEMENTS & ACTIVITIES

- Smart India Hackathon (SIH) participant — developed an ML model for disease identification from medical imaging data as part of a 6-person team.
- Published co-author on HackerNoon: “Influence of Digital Nudging on Consumer Behavior in Food Delivery Applications” — a peer-reviewed tech publication.
- Member, Space Exploration & Development Students (SEDS) club — VIT-AP chapter.

CERTIFICATIONS

AWS Solutions Architect

Jul 2026

IBM Certified Java Developer — IBM

Jul 2025

The Complete Full Stack Web Development Bootcamp — Udemy

Jun 2025