

ANIRUDDHA DEY

Software Engineer

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📍 Vadodara, IN

SUMMARY

Highly motivated B.Tech Computer Science & Engineering student at Vellore Institute of Technology with a strong foundation in algorithms, data structures, and mathematics. Proven track record in full-stack development (React.js, Next.js, Node.js) and end-to-end machine learning (Scikit-Learn, TensorFlow/Keras). Recognized as an SBI Ideathon Finalist, active Kaggle competitor (Kaggler), Leetcode and CodeSignal GCA scorer (500). Interviewed at Hudson River Trading for a quantitative engineer role. Trading day invitation from Suquehenna group. Passionate about building scalable systems, quantitative trading strategies, and AI-powered applications. Seeking a summer internship (remote or on-site) in software development, machine learning, or quantitative research. (My Github repos are privatised, will be public soon.)

TECHNICAL SKILLS

Programming Languages:

● Python • Java • C/C++ • JavaScript • TypeScript

Web & Full-Stack Development:

● React.js, Next.js, Redux, React Native, Tailwind CSS, Bootstrap, HTML5, CSS3

● Node.js, Express.js, MongoDB, PostgreSQL, MySQL, RESTful APIs

● OAuth 2.0, JWT Authentication, Clerk, Supabase, Firebase

Machine Learning & Data Science:

● NumPy, Pandas, Scikit-Learn, TensorFlow / Keras, OpenCV

● Feature Engineering, Model Evaluation, Hyperparameter Tuning, Cross-Validation

● Pandas, Data Visualization (Matplotlib), Jupyter Notebooks

Cloud & DevOps:

● AWS (EC2, S3, Lambda), Azure, Docker, Kubernetes, Git, GitHub Actions

Tools & Platforms:

● Linux (Kali, Ubuntu), Windows, macOS

● VS Code, PyCharm, Postman, Tableau.

● Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Engineering Mathematics, Object-Oriented Programming (Java), Operating Systems, Database Systems, Machine Learning, Computer Networking.

EXPERIENCE

Co-founder/CTO

Startups

📅 2024 - 2025 📍 Remote

Multiple Startups via University Incubation Centre

- Co-founded and currently leading multiple early-stage startups incubated at the university center with VC-backed seed funding. Spearheading design and development of scalable, production-ready applications for the Indian market. Responsible for complete development lifecycle: frontend (React, Next.js), backend (Node.js, Express), databases (PostgreSQL, MongoDB), CI/CD, cloud (AWS, Docker). Integrated advanced AI/ML models into customer-facing platforms using TensorFlow, Scikit-learn, and Keras.

Team Leader

High School Dev Program

📅 2023 - 2024 📍 Vadodara, IN

A program focused on fostering coding skills among high school students

- Led a team of 8 student developers to build and maintain the school's official website using Python (Flask), HTML, CSS, and JavaScript
- Designed and implemented interactive web modules (event registration, result publishing) that increased student engagement by 40%
- Mentored junior participants in coding best practices, version control (Git), and agile workflows; coordinated weekly.

EDUCATION

B.Tech Computer Science Engineering

Vellore Institute of Technology

📅 2024 - 2028 📍 Andhra pradesh, India

PROJECTS

Attendance Using Face Recognition

📅 2024 - 2025

Attendance system using facial recognition technology.

- Stack: Python • OpenCV • Firebase • React Native
 - Built a real-time attendance monitoring system: captured webcam frames, detected faces via Haar Cascades, and computed embeddings with FaceNet.
 - Deployed a Firebase Realtime Database backend to store attendance logs; implemented cloud functions to trigger email/SMS notifications.
 - Creating a React Native mobile app (Android / iOS) for teachers to view and manage attendance; integrated Firebase Authentication.

PROJECTS

HungryAF

📅 2024 - 2025

Student-Run Food Delivery App

- Next.js • Tailwind • MongoDB • Clerk • Supabase • Razorpay
 - Developed a real-time food delivery app for college students using Next.js, MongoDB, Clerk Auth, Supabase, and Razorpay.
- Enabled peer-to-peer delivery from food street to hostel blocks with live order tracking, role-based dashboards, and order history.
- Integrated secure payments with delivery/platform fee logic; wallet system and earnings tracking features in progress.

FaceX - AI-Based Payment Authentication System

📅 2024 - Present

Revolutionizing future payments and transactions.

- Stack: Python • Scikit-Learn • TensorFlow / Keras • Flask • MongoDB
 - Designing an authentication pipeline that combines facial recognition (CNN with Keras) and behavioral biometrics for secure payment validation.
 - Implementing feature extraction (Facial landmarks via Dlib) and training a custom deep learning model (ResNet-based) for identity verification (> 98% accuracy on validation set).
 - Developing a Flask-based REST API for model inference and transaction logging; planning integration with fintech partners via secure OAuth.






QuantStock

📅 2024 - Present

An ML-driven stock price predictor.

- Stack: Python • Pandas • Scikit-Learn • XGBoost • Backtrader • Flask
 - Collected minute-level NSE data using the Zerodha Kite Connect API; performed feature engineering (technical indicators: EMA, RSI, MACD).
 - Trained and compared multiple models (Random Forest, XGBoost, LSTM) for intraday price prediction.
 - Integrated Backtrader to simulate a rule-based trading strategy using model signals.
 - Exposed a Flask API for live predictions; deployed on Heroku with PostgreSQL for logging trade signals.

KEY ACHIEVEMENTS

 SBI Ideathon Finalist Recognized as an SBI Ideathon Finalist for the FaceX idea - shortlisted among top teams nationwide.	 Kaggle Competitor Kaggle Competitor, on my way to become a Grandmaster.
 Interviews and Assessments Interviewed at Hudson River Trading (HRT), Explore HRT Internship Singapore : OA to Interview stage, (rejected); Invited for OA by Susquehanna for Discovery day: strong performance on probability/stats and python challenges.	 CodeSignal GCA Score Achieved a CodeSignal GCA Score of 500 / 600, demonstrating excellent proficiency in data structures and algorithms, python.
 Olympiad Winner Won several Olympiads (Maths,CS) during school days along with good scores in National Level exams during high school.	

CERTIFICATION

HackerRank Certifications

HackerRank Certifications: Problem Solving (5★), Python (5★), SQL (4★), etc

Modern React with Express

Full Stack Web Development Certification



Kaggle Micro-Courses

Completed 8+ Kaggle micro-courses (Python, Pandas, Machine Learning, AI ethics, CV, Numpy)

TensorFlow and Keras

Deep Learning Bootcamp Certification

STRENGTHS

 Analytical Thinking Strong analytical thinker with a passion for solving complex problems	 Effective Communication Effective communicator who collaborates well with teams and leads projects.
 Adaptability Demonstrates adaptability and resilience in dynamic environments	 Problem Solving Love solving complex problems.

INTERESTS

 Competitive Programming Engaged in competitive programming, and preparing for ICPC.	 Ethical Hacking Interest in ethical hacking, system vulnerabilities and security measures, hands on with Kali Linux.	 GATE Aspirant Preparing for one of the toughest National Entrance exams in India.
 Algorithmic Trading Diving into the world of Quantitative Trading, HFTs, hedge funds.		