

Aditya Thakkar

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Summary

Software engineer and startup founder with experience in full-stack development, AI integration, and cybersecurity. CEO of Fruitera. Built a cyber risk platform at KiteCyber with generative AI. Completed ML systems work for Cursor using HuggingFace. Contributed to a world-class FRC robotics team. Focused on real-world scalable systems.

Education

Bellarmine College Preparatory, San Jose, CA
Class of 2027

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS
Frameworks: FastAPI, Flask, Git
Databases: SQLite, PostgreSQL, Mongo, Firebase
AI/ML: scikit-learn, TensorFlow (basic), HuggingFace

Tools: VS Code, Render, GitHub, Docker
Platforms: MacOS, Linux, Windows
Interests: Software, Cybersecurity, AI

Experience

KiteCyber — Software Engineering Intern	Jun–Aug 2025	
<ul style="list-style-type: none">• Built a cyber risk assessment platform using FastAPI and PostgreSQL.• Integrated generative AI to summarize risks and propose mitigations.• Approved for integration into the company product.		
Cursor AI — ML Systems Developer (Project)	May 2025	
<ul style="list-style-type: none">• Implemented contrastive decoding in PyTorch using Qwen LLMs.• Resolved tokenizer mismatches and optimized generation speed.• Provided practical analysis of decoding methods in ML systems.		
Cutlery Rental Website — Creator, Full-Stack Developer mygreenloop.co	Apr–Jun 2025	
<ul style="list-style-type: none">• Built an eco-friendly cutlery rental platform with React, Node.js, and PostgreSQL.• Implemented calendar-based booking, photo uploads, WhatsApp integration, and admin tools.• Designed for community events and zero-waste initiatives.		
Fruitera (Startup) — Founder, Full-Stack Developer fruitera.org	2024–Present	
<ul style="list-style-type: none">• Built a React + FastAPI platform for homegrown produce trading.• Created listings, chat, QR, and calendar modules.• Focused on local sustainability and food-sharing.		
Team 254 – FRC Robotics — Software Division	2023–Present	San Jose, CA
<ul style="list-style-type: none">• Developed Java control systems for autonomous + teleop operation.• Built simulation tools to aid strategy and debugging.• Contributed to a top-5 global team; 2024 World finalist.		
USACO — Competitive Programmer	2023–Present	Remote
<ul style="list-style-type: none">• Reached Silver Level (Top 15%).• Solve graph, DP, and greedy problems weekly.		

Projects

- Fruitera** — fruitera.org: Scalable React + FastAPI platform for neighborhood produce exchange.
- Cutlery Rental Website** — mygreenloop.co: Zero-waste rental platform with calendar, photo uploads, WhatsApp integration, and admin tools.
- CapsuMail** — capsumail.onrender.com: Flask-based secure email with auto-delete + delay send.
- 2D Robot Visualizer** — Java tool for FRC debugging and simulation.
- Cursor Decoding Project** — PyTorch implementation of contrastive decoding between Qwen LLMs.

Leadership & Extracurriculars

AI Education Outreach: Designing and leading an AI fundamentals workshop for under-resourced middle schools using Python, Scratch, and hands-on demos.

Guitar: Performing advanced classical repertoire (Suzuki Book 9).