OM RAHEJA

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Education

West Windsor Plainsboro High School North   **Sep. 2022 – June 2026**
4.59 WGPA   *Plainsboro, NJ*

- Ranked 7th in Computer Problem Solving for Central Jersey at Future Business Leaders America (FBLA)
- Collected 100+ shoes and $150+ cash for FBLA's State Leadership Conference
- Serve as a lifeguard, providing pool safety by enforcing safety protocols and performing rescues
- Spent 4 years swimming for the North Swim Team

Experience

codeabode   **April 2024 – Present**
Chief Executive Officer   *Plainsboro, NJ*

- Lead a team of 7+ and taught 100+ students Scratch and Python & Game Development in 70+ hours
- Earned $2,000 in revenue by teaching classes
- Made AI pipeline to generate unique curriculums per student and re-optimize after each class and homework

aquarc   **June 2024 – July 2025**
Chief Executive Officer   *Remote*

- Used Google Analytics to track 1000+ lifetime users, and beehiiv to track 45+ subscribers for the internship newsletter
- Lead 10+ developers remotely to build an SAT platform with 8000+ questions using Go, React, and PostgreSQL
- Used insights from 5-day Google GenAI Course to make an agent for question finders and reasoning for answers
- Co-authored Comprehensive Mental Health Support Act, co-sponsored by Sen. Burgess
- Created notes using LaTeX for Calculus
- Designed iOS and Android app using Flutter and J2ME app for retro devices

AIxEducation Athena Edtech   **Sept 2024 – Nov 2024**
Finalist   *Remote*

- Won 2nd Place Nationals for research on efficient alternatives to Prussian education model
- Presented on the effectiveness of simulated Montessori schools using AI & 2 hour learning
- Used insights to make codeabode more efficient and collaborative

AIOS Rutgers University   **May 2024 – Dec 2025**
Research Assistant   *New Brunswick, NJ*

- Main speaker at AIOS Hackathon & RUSLUG-AIOS event, introduced 50+ people to AIOS
- Co-authored AutoFlow, an automatic agentic workflow generator
- Documented the AIOS installation, usage, contribution and kept meeting notes

StockSort   **June 2024 – July 2024**
Co-Founder   *Remote*

- Co-founded a team of 6 to build an app that helps sort inventory for enterprises
- Called 75+ leads, earned $80+ in revenue, visited various shops in Princeton to promote and sell StockSort
- Designed deck & pitched StockSort to unicorn investors

HackClub Sprig   **July 2024 – Sept 2024**
Firmware Contributor   *Remote*

- Wrote a tanks game with sophisticated features for the sprig console
- Wrote a VGA-based API in C to print on the sprig using my own bitmap

New Jersey Privacy Movement   **January 2024 – March 2024**
Founder   *Princeton, NJ*

- Wrote a petition on comprehensive privacy laws to access, modify, delete, or opt out of sale of user data
- Worked with Sen. Turner to draft a privacy bill on the issue
- Raised awareness at a Plainsboro Library Event

EyeLevel   **Aug 2023 – Sept 2023**
Volunteer   *Plainsboro, NJ*

- Taught self paced, book based English and Math
- Learned about the deficiencies of busywork for younger kids
- Spent 80+ hours teaching and grading papers

Visual Thinking Strategies Course   June 2023 − August 2023
Student   *Remote*
- Spent 20+ hours learning VTS from Smithsonian
- Used critical thinking skills when deconstructing problems in my initiatives

RISE   June 2023 − August 2023
Volunteer   *East Windsor, NJ*
- Taught disadvantaged kids core curriculum and other skills like culinary, arts, and music
- Helped coordinate a dance performance for 20+ students at the end of summer
- Learned how to efficiently balance between educating and entertaining children

Projects

ily-rs | *Rust, socket.io, asyncio, PostgreSQL*   **May 2025 − August 2025**
- Created a chat app using socket.io in Rust
- Added registration, channel, timestamp, and message storing support

SkyBot | *Rust, asyncio, signal-cli, PostgreSQL*   **August 2025 − Present**
- Used signal-cli to create a Signal bot using DBUS interface
- Added currency model to mimick Discord's SkyBot functionality

tabs | *LilyPond, guitar*   **August 2025 − Present**
- Transcribed songs by ear and played them on my guitar
- Created tab files using LilyPond

Case 2 Slides | *slidev, Gemini*   **May 2025 − August 2025**
- Used Gemini API to parse and create reports of Medical case studies to make presentations in order to reach residents
- Utilized Reinforcement Learning with Human Feedback to optimize prompts for Gemini at lowest cost

Analytical Thinking | *C, make*   **Dec 2024**
- Wrote a C program that implements cli software for thinking techniques used in *The Thinker's Toolkit*
- Created a ranking and weighted ranking tool using multiple criteria

OmLLM | *Python, numpy*   **Oct 2024**
- Learned LLM architecture
- Learned how to vertically scale LLMs and multiple methods to optimize them

Integrate! | *Godot*   **July 2024**
- Wrote a game that uses physics and collisions to teach calculus through velocity, acceleration, etc
- Learned Apple Vision and Godot API

Fridge2Fit | *Node.js, Express, Axiom, Groq*   **May 2024**
- Deployed a full stack AI-powered app to turn pictures of fridges into potential healthy recipes
- Placed at HackMHS as a solo project

omOS | *C, x86 ASM, QEMU*   **February 2024**
- Worked with a team of 3 with no prior experience
- Wrote a standard C library and a VGA driver with keyboard handler
- Learned the difficulty of implementing several resources in OSes such as process management

ptac | *C, libcurl, gdb, lemonbar*   **2023**
- Wrote a C program using libcurl to parse latest practice time for PTAC swimming
- Used lemonbar to put the next time on my taskbar

Skills

Hobbies: Acoustic guitar, Biking
Languages: English, Hindi, Spanish, Chinese
Hardware Projects: 2009 Laptop, hard drive swapped and running Linux, Amazon Fire 2015 reflashed with LineageOS