AELIYA GROVER
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EDUCATION

The University of Chicago, Chicago, IL
Bachelor of Science in Computer Science, expected June 2028
The Harker School, San Jose, CA
Diploma, May 2024
GPA: 4.32
Honors: National Honor Society (2023, 2024), Bronze Presidential Award (2023)
Classes: Compilers & Interpreters, Neural Networks, Computer Architecture, Data Structures, Game Theory

EXPERIENCE

The Harker School, San Jose, CA
Student August 2023 – July 2024

- Starting from a simple 2-2-1 excel spreadsheet and working towards a n-layer perceptron using backpropagation learning algorithm build a neural network that took in gray scale image of my hand holding 1-5 fingers and determined how many fingers I was holding up. Written in java.
- Researched the development and expansion of Rosenblatt's Multilayer Perceptron and studied the model of Proximal Policy Optimization (PPO)
- Built a compiler from lexical analysis to machine code generation from scratch for Pascal language in java
- Created a project searching database in java to help find craft projects given a set of materials

Harker Upper School Summer, San Jose, CA
Teacher Assistant for Advanced Programming, June 2024 – July 2024

- Graded labs and exams for intensive six week course teaching the foundations of object oriented programing through java
- Assisted students through explaining concepts, providing detailed feedback to improve the efficiency and readability of code, and prepared study guides for students in tutoring

EduNATION, San Jose, CA
Chief Executive Officer, Co-Founder, September 2022 – June 2024

- Provided custom B2B eCourse service for company onboarding and customer training
- Winner of Harker BECON SHarker Tank 2023 – school wide startup competition
- Partnered with companies FEA, Mindmarker, and MinervacQ to create courses for their students, employees, and prospective customers

LEADERSHIP & ACTIVITIES

Robotics Team 1072, San Jose, CA
Executive President (2024), Scouting and Strategy Director (2023)

- Hosted meetings for 50+ active members, resolved team wide disputes, ensured progress of team goals
- Represented team at the Worlds tournament by hosting pre-match strategy meetings with other teams
- Created a private python scouting analyzer that took in data from stand scouters and official competition data to determine strengths and weaknesses of robots at the competition. Worked with the App Dev subteam to design and spread a public scouting app, The Purple Warehouse, to over 200+ teams across the world.

Future Problem Solving Club, San Jose, CA
Co-President (2024), Community Problem Solver (2022)

- Organized joint campus activies and agendas for 40+ members in the FPS Club in the Lower, Middle, and Upper School
- Competed in the Global Issues Problem Solving and Presentation of Action Plan to identify problems and provide solutions to those problems from different perspectives.
- Led a awareness campaign for elementary school students through poster making sessions, information videos on Youtube and Instagram, and internet challenges to teach students the dangers of plastic pollution.

SKILLS

Languages: _____ Java, Python, Excel, Html, Css