Ryan Fernandes

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EXPERIENCE

Yale Computer Society, New Haven, CT— *Development Lead*

SEPTEMBER 2024 - PRESENT

- Created/contributed new feature to Yale Research Database in Fall 2024
- Integrated local large language models (LLM) into custom web scraper to gather professor data and extrapolate to create automated lab listings
- Utilized MXBAI and Llama models with Llama.cpp python bindings
- 2025 promotion to become only first-year solo development lead at Yale
- Leading team of developers to restructure backend MongoDB and create account functionality for professors and students to edit/bookmark labs
- Balancing numerous meetings weekly with the Yale Undergraduate Research Association, y/cs, current developers, new hires, professors

Lumos Debate, Newton, MA— *Instructor*

JUNE 2024 - AUGUST 204

- Designed and taught debate programs, wrote personalized evaluations

The Club at New Seabury, Mashpee, MA— *Golf Shop*

JUNE 2023 - SEPTEMBER 2023

- Balanced tee times, tournaments, lessons, inventory, sales, phone calls

EDUCATION

Yale University, New Haven, CT — *Computer Science and Electrical Engineering*

CLASS OF 2028

Natick High School, Natick, MA — *High School Diploma*

SEPTEMBER 2020 - MAY 2024

- 1600 SAT
- 4.8 Weighted GPA, Top 10 Academic Distinction (no class rank)
- National Honor Society President, Math Team President, Model United Nations Co-Secretary General

SKILLS

Programming:

- Data analysis (Python, MATLAB, Pandas, Seaborn)
- Front-end web design (React.js, CSS, Typescript)
- Back-end web design (MongoDB, Express.js)
- Automation (web scraping, automated messaging, browser control tools)
- Other languages: (Java, C#, C++, Racket, SystemVerilog)

Project management

OTHER PROJECTS

Email Notification Program to scrape data from National Honor Society spreadsheets & send automatic, personalized emails to club members

Prom Algorithm recursively simulating and determining most compatible prom tables seating chart for 50+ people

From-Scratch Whack A Mole built with pneumatic pistons and controlled via Arduino

LANGUAGES

English and Spanish (Fluent)

Portuguese (Studying)