

# Andrew Lin

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## EDUCATION

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### Tufts University

Medford, MA

*Bachelor of Arts in Computer Science, Minor in Mathematics/Economics*

***Currently Graduating 2026***

- GPA: 3.6
- Relevant Coursework: Data Structures, Machine structure and Assembly Language Programming
- Future classes: Algorithms, Bridge to Higher Mathematics

## EXPERIENCE

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### Chryselys

June 2023 – August 2023

*Software Development Intern*

*Remote*

- Engineered a data visualization tool to create charts and word clouds based on Twitter user data
- Designed a web scraping tool capable of extracting HTML tables from a website and export them into a spreadsheet, simplifying data collection and analysis processes
- Led the development of a PDF comparison tool, investing over 50 hours to create a robust solution. This tool efficiently detects and highlights the differences between two PDF documents

### Kumon of Darien

August 2019 – August 2023

*Senior Worker*

*Darien, CT*

- Provide personalized instruction and tutoring to those who encountered difficulties in grasping the subject matter.
- Assume the crucial role of grading and correcting classwork and homework assignments for Kumon students.
- Displayed leadership and adaptability by taking charge of operations during periods when the supervisor was unavailable, maintaining a smooth learning environment and effective support for students.

### Private Tutor

June 2022 – August 2023

*Self Employed*

*Darien, CT*

- Provided private tutoring for students learning math during college breaks and vacations
- Teach students math ranging from prealgebra to precalculus

## PROJECTS

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### Document Comparison | *Python, PDF*

July 2023 – August 2023

- Led the development for a PDF comparison tool during an internship
- Created comparison algorithm that determines if different text is unique or just text that has been moved
- Developed highlighter tool capable of highlighting specific words in PDFs
- Worked with mentor to create frontend for tool that provides ease of access for users

### CY-BORG Sheet | *HTML, JS, Node, SQLite3*

June 2023 – Present

- Developing a website for character sheets and data for the TTRPG CY-BORG
- Using SQLite3 to hold user data and character data, as well as storing information from the game
- Learning fullstack development and the Node framework
- Will eventually allow for users to create their own characters for use in real CY-BORG games

### PNM Compressor/Decompressor | *C*

October 2023 – October 2023

- Developed tool that can read a PNM image and compress the image into a file containing 32 bit words.
- Program can also read words and restore the image with some minor data loss.
- Used bitpacking and C bitwise operators to pack the data of pixels into 32bit words.

## SKILLS

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**Languages:** Python, C/C++, SQLite3 , JavaScript, HTML/CSS

**Frameworks:** Nodejs, Express.js

**Developer Tools:** Git, VS Code, Linux, Bash, Vim

**Libraries:** pandas, Matplotlib PyPDF, PyMuPDF