

# Andrew Lin

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## EDUCATION

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### Tufts University

Medford, MA

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

**Graduating 2026**

- GPA: 3.6
- Relevant Coursework: Data Structures, Machine structure and Assembly Language Programming, Bridge to Higher Mathematics, Game Design

## EXPERIENCE

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### Chryselys

Remote

*Software Development Intern*

*June 2023 – August 2023*

- Engineered data visualization that allows team to see commonly used keywords from a pool of tweet timelines
- Designed table-to-spreadsheet web scraping tool that streamlines table to file collection process, eliminating the need for manual data entry
- Led the development of a PDF comparison tool that detects and highlights the differences between two PDF documents. Allows users to easily identify updates and changes to existing documents.
- Engineered algorithm that detects difference between "moved" and "unique" text for PDF comparison tool

### Kumon of Darien

Darien, CT

*Senior Worker*

*August 2019 – August 2023*

- Tutored Kumon subjects of math and reading to students in both individual and group environments
- Graded and corrected assignments when not directly tutoring or during down time
- Managed classroom operations during periods when supervisor was unavailable

### Private Tutor

Darien, CT

*Self Employed*

*June 2022 – August 2023*

- Tutored math to private students during college breaks and vacations
- Taught students math concepts ranging from prealgebra to precalculus

## PROJECTS

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

June 2023 – Present

- Developed a website for storing character sheets and data for the TTRPG CY-BORG online
- Both character and user data is stored on website backend, allowing user to easily save data and retrieve character sheets through a login system
- Table saving and retrieving system built with javascript and nodes allows for easy saving of different items
- Used Node.js, Express.js, and SQLite3 for backend, allowing scalability through async programming

### Invasive Scraper | Hackathon | *Python, HTML, RenPY*

February 2024 – February 2024

- Developed a web scraping tool for hackathon JumboHack 2024. Won 1st place in environmentalism category and most creative project overall
- Tool scrapes invasive species characteristics and symptoms off government website for use in a visualized frontend.
- Project uses the data to educate the user in invasive species that are found in Massachusetts in an entertaining and enjoyable way

### PNM Compressor/Decompressor | School | *C*

October 2023 – October 2023

- Developed tool that can read a .PNM image and compress the image into a smaller file. Tool is able to compress images by over 400% with minimal visible differences
- Implemented decompression tool to read compressed file and restore the image. Restored image is of similar size as the original with minimal 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, BeautifulSoup4, RenPY