Andrew Lin

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EDUCATION

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

Chryselys   Remote
Software Development Intern   *June 2023 – August 2023*
- 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. Tool efficiently detects and highlights the differences between two PDF 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

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
- Stored user and character data in SQLite3
- Built frontend of the sheet using HTML and CSS, and added interactive elements using JavaScript
- Built backend of the sheet using Nodejs and Express.js

Universal Machine Emulator | School | *C*   November 2023 – November 2023
- Developed an emulator for a simple universal machine in C
- Engineered in-memory registers and segments system to emulate stack and heap memory
- Added functionality for 13 instructions that can be used by a user to create programs that run on the emulator

PNM Compresser/Decompresser | School | *C, Assembly*   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

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