Andrew Lin

203-818-7938 | nilydna04@gmail.com | LinkedIn | Github | Portfolio Website

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

Invasive Scraper | Hackathon | *Python, HTML, RenPY* February 2024 – February 2024
- Developed a web scraping tool for a hackathon using Python beautifulsoup
- Transcribed data of invasive species found in Massachusetts into JSON format to be used in the frontend
- Won 1st place in environmentalism category and most creative project at Jumbohack 2024

PNM Compresser/Decompresser | School | *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

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