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: Algorithms, Artificial Intelligence, Data Structures, Machine Structure and Assembly Language Programming, Bridge to Higher Mathematics, Game Design

Skills

Languages: JavaScript, Python, C/C++, SQLite3, HTML/CSS, C#
Frameworks: Nodejs, Express.js, React.js
Developer Tools:Git, bitbucket, Jira VS Code, IntelliJ, Linux, Bash, Unity
Libraries: Pandas, Matplotlib PyPDF, PyMuPDF, Beautifulsoup4, RenPY, Aggrid

Experience

DTCC Boston, MA

Software Development Intern *June 2024 – Current*

- Created and deployed Reactjs pages, increasing sprint velocity per cycle
- Developed and fixed Java Spring backend API calls for new UI pages to be developed
- Participated in daily meetings with team and offered new ideas on implementation and design

Tufts Privacy and Security Lab Medford, MA

Project Helper/Primary Researcher *March 2024 – Current*

- Working on university-led cybersecurity clinic study with the Tufts Privacy and Security Lab
- Conducted and helped with interviews, gathering data for qualitative analysis for study
- Utilized qualitative coding to analyze and organize data into readable data

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, 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.
- Engineered algorithm that detects difference between "moved" and "unique" text for PDF comparison tool

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 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 scability 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 Compresser/Decompresser | 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