



Education

2022-2025 \circ

Bachelor of Arts in Computer Science, Hunter College, Manhattan NY, Aug. 2025 Completion Relevant Coursework: Data Structures and Algorithms, C++, Python, Machine Learning, Computer Architecture, Discrete Structures, Computer Organization, Data Mining, Data Engineering, Symbolic Logic

Skills

Programming C++, ŁTFX, Git, Python, React, Typescript, Ubuntu Linux Bash

Technologies Anaconda, Gimp, GitHub, Linux/Ubuntu, Jupyter Notebooks,

TeXStudio, Unraid, VSCode, Windows

| Projects

React

Summer 2025

AllCards, Team of 4, Capstone

A Web-App that brings TCG collections to the digital era.

Users can create a searchable, personal digital binder of their physdical cards.

They can store, browse, and organize cards from various franchises.

Tech Stack:

- Frontend
 - React
 - BootstrapCSS
- Backend
 - Firebase;
 - Authentication
 - Register Account
 - · Sign-in and Sign-Out
 - Firestore
 - · Add franchises to collection
 - · Add Cards to collection per franchise
- O APIs
 - Magic the Gathering:

https://scryfall.com/docs/api/

- Pokemon:

https://docs.pokemontcg.io/

- Yu-Gi-Oh!:

https://ygoprodeck.com/api-guide/

- More franchises to be added
- Languages
 - CSS
 - HTML
 - TypeScript

Spring 2025

SimOS: Process & Memory Manager, Individual Project

An OS simulation through a simplified OS kernel.

It simulates process scheduling, memory allocation, and disk I/O handling. Details:

- O Designed and implemented a priority-based preemptive CPU scheduler with randomized tie-breaking for equal-priority processes
- o Implemented worst-fit memory allocation strategy with recursive cleanup of zombie processes and their descendants
- o Simulated FCFS (First-Come-First-Serve) disk I/O request queue with realistic process blocking and unblocking
- o Managed process creation (fork), waiting, and cascading termination using a dynamic PCB table and child tracking
- o Used basic containers only (e.g., vectors and arrays); no maps or advanced STL structures
- o Core logic based on textbook chapters 1–10, prioritizing clarity and correctness over performance

Python - Data Mining

Fall 2024

NBA Awards Prediction, Team of 5

Data Mining to algorithms designed to predict top candiates for several NBA Awards. Previous yearly NBA statistics scraped to form datasets for predictions. Details:

- o API, BRScraper, scraped data from BasketballReference.com
 - Formed datasets for players and league standings
 - Yearly stats dating back to 1980
 - Added engineered features
- o Python libraries used:
 - pandas
 - scikit-learn
 - BRScraper (API)
 - numpy
 - matplotlib
 - and several others
- o ML Algorithms used to build models for prediction

Unraid

Apr 2022-pres. े

Home Media Server, Individual Project

A personal home media server.

Operates on Unraid VM and Ubuntu Linux.

Utilized as personal media cloud.

Details:

- O Built with spare computer parts and new server specific parts
- o Programmed and designed the operation
- Produced platform for
 - eBooks
 - Movies and TV Shows
 - Music
 - Photos
- Future development
 - VPN service for whole home protection
 - Documents
 - Video Games

| Supporting Experience

Journeyman

2015-2022

Electrician, Local Union #3 IBEW, NYC, NY

 $Provided\ electrical\ and\ fiber-optic\ installations,\ maintenance,\ and\ repairs.$

Details:

- Supervised jobsite
- Supervised and trained Apprentices
- o Ran planning, considering budgets and material management
- o Maintained client relations and satisfaction, and had daily correspondence the management team
- o Provided clients with updates and alternative solutions to achieve satisfactory outcomes and project completion

| Certifications

- o NYS DOL Certificate of Completion for Apprenticeship Training
- OSHA 10
- OSHA 30
- Site Safety Training