

Justin Nguyen

justinn123123123@gmail.com

(301) 820-8347

US Citizen

Education

University of Maryland, College Park, MD

B.S. in Computer Science — Specialization: Data Science — University Honors — Dean's List **Expected: Dec 2025**

Relevant Coursework: Computer Systems, Programming Languages, Algorithms, Data Science, Machine Learning, Artificial Intelligence, Human-Computer Interaction

Technical Skills

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, OCaml, MATLAB, Rust, SQL, TypeScript

Frameworks/Tools: React, FastAPI, Flask, Pandas, Scikit-learn, Scikit-Surprise, Git, Bitbucket, Jira, Figma

Databases: PostgreSQL, SQLite

Cloud/DevOps: Amazon AWS, Microsoft Azure (familiar), UNIX/Linux environments

Professional Experience

Precise Software Solutions, Rockville, MD

May 2022 – Aug 2022

Software Engineering Intern

- Conducted QA testing for **PillSafe**, a cloud-based pill recognition app leveraging **machine learning** and big data, identifying 15+ critical bugs.
- Designed and deployed the **Sapfonte internal website** using HTML, CSS, and JavaScript; boosted engagement through a company-wide demo.
- Led Agile ceremonies as Scrum Master, utilizing Jira and improving team coordination and sprint velocity by 20%

Projects

MangaUpdates Scraper

June 2025

Data Science / Full-Stack / Recommender System

GitHub

- Designed an end-to-end pipeline in **Python** to scrape, clean, and store metadata from 500+ manga using **BeautifulSoup**, **Requests**, and **Pandas**.
- Built a personalized recommender system with **Scikit-Surprise** and **K-Nearest Neighbors (KNN)**; backend structured for future deployment.
- Engineered data ingestion and category scoring logic for user-driven filtering; demonstrated effective data parsing and modeling.

UMD Planet Terp Scraper

January 2025

Full-Stack Pipeline + NLP Project

GitHub

- Developed a data pipeline to extract and process 24k+ course entries and 13k+ professors using the **Planet Terp API** and **Pandas**.
- Built a real-time **Discord bot** using **discord.py** for users to access professor/course metrics and sentiment-based rankings.
- Used **SentenceTransformers** and **VotingRegressor** for textual review modeling, predicting professor ratings from reviews with strong accuracy.

Spotify Activity Tracker

June 2025

Full-Stack OAuth + Web App Project

GitHub

- Developed a full-stack web application allowing users to authenticate with **Spotify OAuth 2.0** and view real-time playback activity using the **Spotify Web API**.
- Built backend using **Python Flask** to manage token authentication, API requests, and user session handling.
- Designed the frontend with basic **HTML/CSS**, focusing on usability and responsive display of listening data.
- Implemented access token refresh flow to maintain seamless user experience during API interactions.