Justin Nguyen

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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: Python, Java, C, C++, Rust, OCaml, MATLAB, SQL, JavaScript, TypeScript, HTML, CSS
Frameworks/Libraries: React, Flask, Pandas, NumPy, Scikit-learn, Scikit-Surprise, BeautifulSoup, LangChain
Tools: Git, Bitbucket, Jira, Figma

Professional Experience

Precise Software Solutions, Rockville, MD   **May 2022 – Aug 2022**
Software Engineering Intern

- Collaborated with team members to build Sapfonte website using **HTML, CSS, and JavaScript**
- Contributed code through **Jira**-managed tasks, assisting with feature implementation.
- Participated in a company-wide demo showcasing the website

Projects UMD Planet Terp Scraper   **June 2025**
Full-Stack Data + LLM Application
GitHub

- Built an end-to-end application using the **Planet Terp API** to extract and analyze 24k+ courses and 13k+ professors.
- Designed a real-time **Discord bot** with **LangChain** and **OpenAI** to generate professor summaries, course metrics, and smart recommendations.
- Developed a modular pipeline using **Pydantic**, **PromptTemplate**, and **OutputParsers** to enforce structured outputs from LLMs.

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.

MangaUpdates Scraper   **Jan 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.