

Justin Nguyen

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EDUCATION

University of Maryland

B.S. in Computer Science — Specialization: Data Science; GPA: 3.76

College Park, MD

Expected Dec 2025

- University Honors; Dean's List
- 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, Docker, Bitbucket, Jira, Figma

EXPERIENCE

Montgomery College, Disabled Student Services

Germantown, MD

Calculus/Computer Science Tutor

Sep 2022 – May 2023

- Tutored students with disabilities in **Calculus** and **Python programming**, adapting teaching methods to support diverse learning needs.
- Promoted confidence and mastery of concepts through personalized guidance and problem-solving strategies.
- Provided note-taking assistance to ensure accessibility and comprehension for students requiring additional support.

Precise Software Solutions

Rockville, MD

Development Intern

May 2022 – Aug 2022

- Built internal website using **HTML**, **CSS**, and **JavaScript** as part of the Sapfonte initiative.
- Contributed code through **Jira**-tracked tasks and collaborated on feature implementation with the development team.
- Presented final product in a company-wide demo to 100+ employees.

PROJECTS

UMD Professor Summarizer | Flask, Tailwind CSS, LangChain, Redis, Docker | GitHub

July 2025

- Built full-stack dockerized Flask web app leveraging the **Planet Terp API** to analyze 24k+ courses and 13k+ professors.
- Developed responsive UI with **Tailwind CSS** for professor summaries and insights.
- Implemented modular LLM pipeline with **Pydantic**, **PromptTemplate**, and **OutputParsers**.
- Used **Redis** caching to reduce API latency and improve responsiveness.

Spotify Activity Tracker | Flask, Spotify API, OAuth 2.0 | GitHub

June 2025

- Developed Flask-based app authenticating users with Spotify OAuth 2.0 for real-time playback tracking.
- Implemented backend token handling and API communication in **Python**.
- Designed responsive, minimal UI with HTML/CSS.

MangaUpdates Scraper | Python, BeautifulSoup, Scikit-Surprise | GitHub

Jan 2025

- Scraped and cleaned metadata from 500+ manga using **BeautifulSoup**, **Requests**, and **Pandas**.
- Built personalized recommender system with **K-Nearest Neighbors**.
- Implemented category scoring and filtering for customized recommendations.

Obesity Rate Prediction | Python, Random Forest, Linear Regression, KNN | GitHub

Dec 2024

- Analyzed CDC obesity data with multiple regression models to identify key factors such as income and education.
- Performed hypothesis testing to assess feature significance.
- Preprocessed dataset via feature reduction and **KNN imputation**.