

Jeffery Wei

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EDUCATION

University Of Maryland, College Park | College Park, MD

Expected Graduation May 2027

Bachelor of Science

Majors: Computer Science (Machine Learning Specialization) and Applied Mathematics

- Awards: President's Scholarship
- Coursework: Object-Oriented Programming I and II (Java), Linear Algebra, Discrete Structures

Poolesville High School | Poolesville, MD

Graduated May 2023

- GPA/WGPA : 3.97/4.87

SKILLS

- **Programming Languages:** Java, Python, JavaScript, HTML, CSS
- **Frameworks/Libraries:** React, Node.js, Flask, REST APIs, Bootstrap, jQuery
- **Developer Tools:** Git, Visual Studio Code, Eclipse, PyCharm, JupyterLab, Figma, MATLAB

EXPERIENCE

Researcher and Intern | UMD CS MIND Lab

Oct 2021 - Present

- Investigate machine learning models to predict onset of respiratory illness.
- Analyze changes in breathing patterns, coupled with movement data, to understand shifts in patients' health.
- Develop front-end and back-end improvements of the MIND Lab website using React to enhance user experience.

Chief Executive Officer and Co-Founder | Prism Website Design, LLC

Apr 2021 - Present

- Design and develop professional websites for businesses and individuals.
- Deliver modern solutions to improve navigability and increase exposure: mobile-friendliness, search engine optimization, responsive design.
- Manage all operations, communications, advertising, and marketing.

Lead Intern | Upcounty Prevention Network

Mar 2022 - Aug 2023

- Guided team of six interns to stay on track with tasks and expectations.
- Instructed team in developer industry practices: wire-framing, design prototyping, code etiquette, component-based development, version control.
- Overhauled website for rebranding and improvement of functionality and site structure.

Webmaster and Committee Member | Poolesville Day, Inc

Mar 2022 - Jan 2023

- Maintained website of the 12,000 attendee Poolesville Day festival.
- Created and implemented website forms and payment portals to generate new revenue channels and engage involvement.
- Redesigned site architecture and navigation scheme to optimize ease of use.

Webmaster | Community Farm Share 503(C)(3)

Jan 2023 - Nov 2023

- Nonprofit dedicated to reshaping the local food system through assisting those experiencing food insecurity, low-income residents at risk of chronic diet related diseases, and small-scale produce farmers.
- Remodeled website user interface to improve communication with visitors.
- Updated content to reflect new ventures and contributions to the local agricultural community.

PROJECTS

SnapChef | Python, Flask, Javascript, HTML, CSS

- Developed a web app that utilizes computer vision for ingredient detection and recommends recipes based on results.
- Trained and integrated a custom machine learning model for ingredient detection using Python and YOLOv8.
- Implemented a frontend with video streaming functionalities using JavaScript and developed a backend server using Flask to asynchronously handle incoming HTTP requests, image uploads, and provide RESTful API endpoints for processing.

Portfolio Website | React, HTML, SCSS

- Designed a projects section with an organized and responsive layout using the Material-UI library's Grid component.
- Ensured a seamless and responsive design across various screen sizes using Media Queries in SCSS.