Jeffery Wei

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EDUCATION

University Of Maryland, College Park | College Park, MD　　　　　　　　　　　*Expected Graduation May 2026*
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

SKILLS

- **Programming Languages**: Java, Python, JavaScript, HTML, CSS
- **Frameworks/Libraries**: React, React Native, 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.
- Improve MIND Lab website user experience and optimize site loading times and performance using React and Gatsby.

Chief Executive Officer and Co-Founder | Prism Website Design, LLC　　　　　　*Apr 2021 - Present*
- Design and develop professional websites for small businesses to improve online presence and boost sales.
- Deliver modern solutions to improve navigability and increase exposure, including SEO and responsive design.
- Manage all business operations, marketing, and customer communications.

Software Engineer | Hack4Impact　　　　　　　　　　　　　　　　　　　　*Feb 2024 - Present*
- Developed a mobile app for a nonprofit promoting family literacy, leveraging React Native to facilitate parent tracking of children's reading assignments.
- Integrate Google Firestore database to efficiently manage and store reading assignment data for parents and children.

Lead Intern | Upcounty Prevention Network　　　　　　　　　　　　　　　　*Mar 2022 - Aug 2023*
- Led a team of six interns through agile scrum sprints, ensuring efficient task management and progress towards goals.
- Led training sessions on industry practices, including wireframing, component-based development, and version control.
- Overhauled website to align with rebranding initiatives, enhancing both functionality and site structure.

Webmaster and Committee Member | Poolesville Day, Inc　　　　　　　　　　　*Mar 2022 - Jan 2023*
- Maintained the website of the Poolesville Day festival to promote event participation, attracting over 12,000 attendees.
- 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　　　　　　　　　　　　　　　　　　　　*Jan 2023 - Nov 2023*
- Remodeled website user interface to improve communication with visitors.
- Updated content to reflect new ventures and contributions to the local agricultural community.

PROJECTS

SnapChef | jwei.pythonanywhere.com | *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 | jefferywei.com | *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.