Justin Wu

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Education

University of Michigan **Expected May 2026**
Bachelor of Engineering in Computer Science *Ann Arbor, MI*

- Related Coursework: Programming and Data Structures, Discrete Mathematics, Elementary Programming Concepts, Computer Science Pragmatics.
- Activities: Michigan Data Science Team, MProduct Product Management, Michigan BlockChain, Revolution Chinese Yo-yo.

Experience

Web Developer **May 2024 – Present**
Carrier, Shende & Associates, P.C. *Ann Arbor, MI*

- Designed and developed a comprehensive website for a law firm, ensuring a user-friendly interface and visually appealing aesthetics tailored to client specifications using HTML and CSS.
- Utilized AWS hosting services for seamless deployment resulting in optimal performance and reliability, saving the client $11 per month in infrastructure costs.
- Boosted search visibility by optimizing for local SEO with localized keywords resulting in a 45% increase in local search traffic.
- Streamlined communication between the firm and its potential clients by implementing an email contact form using Web3 forms, leveraging API integration.

Full-Stack Software Engineering Intern **May 2024 – Present**
CollegeDAO *Novi, MI*

- Integrated Supabase hooks, reducing data transfer time by 34% and improving system reliability.
- Implemented user edit functionality, leading to rapid adoption by 60% of new users within the first month, resulting from an improved update process with seamless database updates.
- Enabled users to view and respond to partnership offers with immediate UI updates using the Fetch API, resulting in a 56% adoption rate of the new feature.
- Designed a smoother user experience by debugging and fixing integration issues between the frontend and backend, accelerating the website launch by approximately 3 weeks.

Projects

Full-Stack Email Service | *JavaScript, React, Redux, Express, MongoDB* **May 2024 – June 2024**

- Created a full-stack web app using React, targeted toward small businesses and startups to help them receive feedback from their customers using a third-party service to send and receive emails.
- Achieved seamless integration of user data, as indicated by the automatic creation of user records upon OAuth sign-in by integrating Mongoose to manage MongoDB collections and records.
- Enhanced application routing and navigation, as demonstrated by quick and accurate response handling by implementing React Router for routing and Express for route management.

Neural Network Image Classification | *Python, PyTorch, pandas, Matplotlib* **Feb. 2024 – April 2024**

- Designed an effective convolutional neural network using PyTorch, as evidenced by achieving an average test accuracy of 90.7%, by employing a transfer-learning strategy to detect real vs. fake (photoshopped) images of human faces.
- Effectively balanced the bias-variance tradeoff as measured by reducing the prediction error rate by 8%, increasing model complexity to reduce bias while managing variance using GradCam.
- Improved model accuracy and functionality as measured by improved visual data learning, through essential image pre-processing tasks like resizing, rescaling, tensor conversions, and color jittering.

Technical skills

Languages: C++, Python, TypeScript, JavaScript, HTML, CSS
Frameworks: Express, Passport.js
Developer Tools: Git, VS Code, Figma, Jupyter Notebook, Linux
Libraries: React, Redux, PyTorch, Matplotlib, Mongoose, pandas