

Jason Peng

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EDUCATION

University of California, Davis

Davis, CA

Bachelor of Science in Computer Science - 3.9 GPA

exp. June 2027

- Relevant Coursework: Data Structures & Algorithms in Python, Data Structures in C/C++, Object-Oriented Programming, Memory Management in C, Discrete Mathematics, Software Development in UNIX/C++

EXPERIENCE

Web Developer and Designer

August 2024 – Present

Remote

- Developed 3+ full-stack tailored web applications for portfolios and small businesses leveraging **React** as my frontend framework, **Express/Node.js RESTful APIs**, and **MongoDB** for scalable data persistence
- Implemented responsive designs with Tailwind CSS and custom component libraries, reducing time-to-market by **40%** through rapid prototyping, optimizing user experience resulting in a **20%** increase in session time
- Created engaging user experiences, maintaining functionality across devices, increasing user engagement by **15%**

Software Engineer

September 2024 – Present

AggieWorks

Davis, CA

- Architected a campus-wide dining menu tracker app for over **40,000** UC Davis students, utilizing **TypeScript** and **Tailwind CSS** to redesign the frontend UI, reducing latency by **10%**, implemented real-time menu updates and dietary filters through a containerized web scraper using **Docker**, reducing data processing time by **50%**
- Engineered many mobile components such as a Navbar and favorites modal for mobile devices by utilizing React's concurrent features and custom animation hooks, increasing user engagement and click through rate by **30%**,
- Worked in an **AGILE**, sprint-based environment, with a cross-functional team of PM, designers, and engineers

Software Engineer

September 2024 – Present

CodeLab

Davis, CA

- Built a university-wide lost and found app for over **40,000** UCD students, designed a search function for lost and found items by connecting **RESTful API** endpoints to a Spring Boot backend, reducing search time by **30%**
- Crafted a seamless frontend experience through precise implementation of **Figma** design systems and interactive wireframes leveraging Tailwind CSS and Next.js, resulting in a **50%** increased interaction on key features
- Collaborated in a cross-functional team of 12, including project managers, designers, and engineers, facilitated weekly stand-ups to streamline project workflows in order to ensure comprehensive user-centered software solution

PROJECTS

Flooring Sales Web App | Javascript, Tailwind, React, Express

[Link](#) | [Repo](#)

- Streamlined a full-stack web application using **React + Vite** for the frontend and **Express** for the backend, allowing users to browse flooring options, view product descriptions, and add items to a dynamic shopping cart
- Implemented modular components for fast UI updates, increasing current and future development efficiency by **30%**, and integrated responsive design with Tailwind CSS and custom component libraries to scale across devices
- Configured **CRUD routes** for shopping cart data management, improving data handling efficiency by **25%**
- Connected frontend to flooring options backend via **REST API** and **async** functions, reducing load times by **10%**

Wishlist Organizer | TypeScript, NextJS, Supabase, Tailwind, Clerk, SQL

[Link](#)

- Created a **TypeScript** and **Next.js** based web application for organizing group wishlists, featuring full user authentication and dynamic routing. Leveraged **Supabase MySQL** tables for managing and securing over 110 user accounts, user groups, wishlist items, and gift assignments, achieving an average of **550 page views per day**.
- Integrated **Clerk** for secure authentication. Visitors are directed to the landing page, users to dashboard. Added role-specific features including group settings accessible only to creators, and a gift assignment system that conceals only the gift getter from recipient but viewable otherwise, ensuring a precise and personalized user experience.

TECHNICAL SKILLS

Languages/Frameworks: Python, React, JavaScript, HTML/CSS, C/C++, Angular

Developer Tools: Git, Docker, MongoDB, VSCode, Supabase, Github, Node.js, Tailwind, Bun.js, Flask

Interests: Web Design, Full-stack Development, AI/Machine Learning, System Design, Web Design, AWS