

Jaime Xu

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Education

Purdue University

Bachelor of Science, Computer Science

Aug 2022 - Dec 2026

West Lafayette, IN

- **Coursework:** Data Structures and Algorithms, Software Engineering, Analysis of Algorithms, Object-Oriented Programming, Software Testing, Systems Programming, Computer Architecture, iOS Development in Swift

Work Experience

Tenon

Software Engineer Intern

May 2025 - Aug 2025

Indianapolis, IN

- Architected a customizable form SDK using React and ServiceNow, implementing Role-Based Access Control (RBAC) to secure sensitive platform data and enforce user permissions across the application.
- Enhanced global accessibility by engineering and integrating multilingual support across a library of 30+ reusable ServiceNow components using Seismic JavaScript framework.
- Collaborated within an Agile/Scrum development environment, participating in daily stand-ups, sprint planning, and peer code reviews.

Fundwurx

Feb 2024 - Aug 2024

Philadelphia, PA

Software Engineer Intern

- Designed, developed, and deployed a REST API using TypeScript, Node.js, and PostgreSQL that facilitated the creation and management of over 40 volunteer events, accumulating 700+ volunteer hours.
- Boosted event participation by developing a user interest tracking feature with React and Redux for client-side state management, which allowed for personalized event recommendations.

Hack the Future

Sep 2023 - May 2024

West Lafayette, IN

Software Developer

- Engineered a signup form with intuitive UI/UX using React, Tailwind CSS, and Material UI, processing 2,100+ user registrations.
- Developed a secure administrative dashboard with Node.js and Express.js to automate data aggregation and reporting, eliminating 30+ hours of manual monthly work and improving data accuracy.
- Implemented secure, session-based user authentication and authorization to protect sensitive user data and control access to administrative functionalities, following security best practices.

Projects

Boiler Dining

- Built React Native mobile app to help Purdue students make informed on-campus dining decisions. Provided real-time occupancy levels, estimated wait times, and daily menus for all dining halls.
- Added an interactive map with travel-time calculations using MapBox and Google Maps APIs, offering commute estimates based on the user's chosen transportation mode.
- Leveraged user-generated data by integrating reviews and reports to perform data analysis, enabling predictive insights into dining hall wait times and occupancy patterns.
- Established a CI/CD pipeline for automated testing and deployment, authoring over 30 Jest unit tests to ensure code reliability and quality.

Shiba Type

- Developed a full-stack typing test application using React, TypeScript, and a Node.js/Express backend, featuring a competitive leaderboard to rank user performance by words per minute (WPM) and accuracy.
- Containerized the full-stack application using Docker for streamlined deployment and integrated a RESTful API with 8 endpoints for data management and scalability.
- Authored a comprehensive test suite with Jest, achieving 100% test coverage for all core features, including user authentication and API endpoints.

Skills

- **Languages:** JavaScript/TypeScript, Java, C/C++, Python, SQL, HTML/CSS, Swift, Bash, x86 Assembly
- **Frontend:** React.js, React Native, Next.js, Redux, Tailwind CSS, Material UI, HTML/CSS
- **Backend:** Node.js, Express.js, PostgreSQL, MongoDB, Firebase
- **Tools:** Docker, AWS, Git, ServiceNow, Linux, CI/CD, Postman, REST APIs, Agile/Scrum