

# Jaime Xu

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science

West Lafayette, IN

Aug. 2022 – Dec. 2026

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

## EXPERIENCE

### Software Engineer Intern

May 2025 – Aug. 2025

Tenon

Indianapolis, IN

- Architected a customizable form SDK using ServiceNow, implementing Role-Based Access Control (RBAC).
- Enhanced global accessibility across 90+ custom ServiceNow components by integrating multilingual support.
- Collaborated within an Agile/Scrum development environment, participating in daily stand-ups and code reviews.

### Software Engineer Intern

Feb. 2024 – Aug. 2024

Fundwurx

Philadelphia, PA

- Deployed 12+ client-facing REST APIs using TypeScript and PostgreSQL for event management software.
- Facilitated management of 40+ events and 700+ service hours by optimizing backend data aggregation.
- Increased event signup rates by 25% by implementing a user interest tracking feature with React and Redux.

### Software Developer

Sep. 2023 – May 2024

Hack the Future

West Lafayette, IN

- Developed an administrative dashboard to automate data aggregation, eliminating 30+ hours of monthly work.
- Engineered a signup form using React, Tailwind CSS, and MUI, processing 2,100+ user registrations.
- Implemented session-based user authentication and authorization to control access to administrative functionalities.

## PROJECTS

### Boiler Dining | React Native, Node.js, Express.js, Jest

- Built React Native mobile app to help Purdue students make informed on-campus dining decisions.
- Established a CI/CD pipeline for automated testing and deployment, authoring 30+ Jest unit tests.
- Integrated an interactive map with travel-time calculations using Mapbox and Google Maps APIs.
- Provided real-time occupancy levels, estimated wait times, and daily menus for all dining halls.
- Applied data analysis to user-generated data to generate predictive insights and occupancy patterns.

### Linux Shell | C++, C, Flex, Bison, Unix

- Engineered a Unix shell with a parser and executor using Flex and Bison to execute complex command sequences.
- Implemented I/O redirection, background process management, subshell execution, and signal handling routines.
- Utilized Unix system calls to implement shell built-in functions and directory-aware wildcard expansion.
- Orchestrated inter-process communication for piped commands using Unix pipes and file descriptor manipulation.

### Shiba Type | React, TypeScript, Node.js, Express.js, Docker, Jest

- Developed a typing test website with a leaderboard to rank user performance by words per minute and accuracy.
- Containerized app with Docker, implemented CI/CD pipeline with GitHub Actions, and deployed on AWS EC2.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Java, C/C++, Python, SQL, Swift, HTML/CSS, Bash, x86 Assembly

**Frameworks:** React.js, React Native, Next.js, Node.js, Express.js, Redux, Tailwind CSS, MUI

**Developer Tools:** AWS (EC2, S3), Docker, Jest, JUnit, Git, Linux/Unix, Postman, ServiceNow

**Databases:** PostgreSQL, MongoDB, Firebase