

Saw Zi Dunn

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Personal Website: <https://sawzidunn-portfolio.vercel.app>

Skills

- **Programming Languages:** Python, JavaScript, Typescript, Rust
 - **Frontend:** React, Redux, Next.js, Zustand, React Query, HTML, CSS, Bootstrap, Tailwind CSS
 - **Backend:** Node.js, Express.js, Django, Flask, FastAPI, RESTful APIs, WebSocket, SQLAlchemy, Django ORM
 - **Database:** SQL (RDBMS), PostgreSQL, SQLite, NoSQL, MongoDB
 - **Testing & Quality Assurance:** Test Automation, Playwright, Jest
 - **Devops & Tools:** Git & GitHub, GitHub Actions, CI/CD Integrations, Vercel, Postman
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Work Experience

Test Automation Engineer Intern - Social+

May 2025 - Sep 2025

- Implemented scalable test automation framework utilizing Page Object Model architecture and modular design patterns using **Playwright** for web and **Jest** for REST API testing, achieving 80% test coverage
- Integrated comprehensive automated test suites into CI/CD pipeline with parallel execution capabilities, reducing feedback time from hours to 15 minutes and enabling rapid feedback on code changes

Rust Teaching Assistant - King Mongkut's Institute of Technology Ladkrabang

Jul 2025 - Oct 2025

- Mentored 60+ freshmen students in System Programming lab sessions focused on Rust Programming fundamentals
- Conducted debugging sessions and graded assignments ensuring code quality and adherence to best practices

Freelance Web Developer

Feb 2025 - Present

- Developed 'Skyrise' education platform with React, TypeScript, Zustand, and ReactQuery featuring student portal for university applications, appointment scheduling, and program search functionality serving 1000+ users ([Demo](#))
 - Implemented responsive admin dashboard with efficient state management, asynchronous HTTP API calls, and real-time data synchronization achieving fast load times and seamless user experience
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Education

- **King Mongkut's Institute of Technology Ladkrabang (GPA: 3.73/4.0)**

July 2024 - Present

- Bachelor of Engineering in Software Engineering
 - Awarded a 4-year scholarship covering 75% tuition fees
 - Coursework: Data Structures & Algorithms, Probability Models and Data Analysis, Object-Oriented Programming
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Projects

KMITL Portal | [React](#), [React Hooks](#), [FastAPI](#), [PostgreSQL](#), [SQL Alchemy](#), [WebSocket](#)

[Demo](#) | [GitHub](#)

- Built Full-stack web platform connecting students and professors through community management system with role-based access control, real-time WebSocket chat, and component-based architecture for seamless collaboration

Sentria | [Typescript](#), [Express](#), [MongoDB](#), [React Query](#), [Zustand](#)

[GitHub](#)

- Contributed responsive frontend components to open-source incident reporting platform with 5 active contributors, implementing real-time mapping integration, resource directory, and emergency communication features
- Utilized React Query for efficient **server state management** and Zustand for **client-side state**, ensuring seamless user experience across devices and adhering to open-source contribution guidelines

ChefConnect | [Django](#), [JavaScript](#), [SQLite3](#), [Tailwind CSS](#), [ORM](#)

[Demo](#) | [GitHub](#)

- Designed and developed full-stack social network application for chefs and food lovers featuring recipe sharing, interactive feed with like/comment functionality, profile customization, and culinary community building

TaskBoard | [Node.js](#), [Express.js](#), [MongoDB](#), [JWT](#), [RESTful API](#)

[GitHub](#)

- Built RESTful backend service implementing **JWT-based** authentication, role-based authorization middleware, and MVC architecture pattern using NoSQL database for data persistence and scalability
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Certificates and Achievements

- [CS50's Introduction to Computer Science](#) CS50, Harvard
- [Backend Development and APIs](#) freeCodeCamp
- [Developing Back-End Apps with Node.js and Express](#) IBM
- [JavaScript Algorithms and Data Structures](#) freeCodeCamp