

# Sam Tran

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## SUMMARY

Software Engineering student with 2 years of experience in front-end (HTML, CSS, ReactJS), back-end (PHP, Laravel, SQL), and desktop applications (C#). Proficient in Node.js, TypeScript, Python, and Selenium with skills in UI/UX design, debugging, and search system development. Strong leadership, teamwork, and customer service abilities gained through youth leadership and volunteering roles. Portfolio : <https://swe-sam.github.io/swe-samgithub.io/index.html>

## EDUCATION

### BEng, Bachelor of Engineering: Computer Science, Software Engineering

Sheffield University • Sheffield, SHF

## EXPERIENCE

### Full-stack Developer

#### Elanco

January 2025 - March 2025

- Assisted in developing a full-stack web application using Flask for the backend and ReactJS for the frontend, ensuring seamless RESTful API integration and efficient data handling.
- Contributed to AI script writing and automation using Python, integrating AI models to enhance system functionality and optimize processes.
- Participated in agile development teams, contributing to sprint planning, daily stand-ups, and retrospectives to improve project outcomes.
- Deployed applications to cloud platforms such as Azure, ensuring scalability and reliability. Managed version control using Git, enabling efficient team collaboration and code management.
- Implemented unit testing using Python's unittest framework, achieving 95% test coverage, ensuring robust functionality and minimizing bugs before deployment.

### Software Intern

#### Pro Check-Up

March 2023 - August 2023, London

- Designed and deployed a custom search engine using Python, improving database query efficiency by 30% through optimized indexing and search algorithms.
- Enhanced system reliability by debugging existing code using inbuilt profilers, reducing average response time from 800ms to 500ms.
- Utilized BeautifulSoup and Selenium for efficient web scraping, enabling automated data extraction from dynamic and static websites.
- Implemented PostgreSQL for robust data storage and query optimization, enhancing system performance and scalability.
- Provided technical support and troubleshooting assistance, resolving queries promptly to maintain high levels of customer service.

### Media Server Developer

#### Project

May 2024 - December 2024

- Assisted in developing an AI-powered Discord bot using Python (discord.py) and OpenAI API, optimizing automated responses and enhancing user engagement for a 2,000-member server
- Led the integration of third-party APIs, expanding application functionality and interoperability
- Optimized existing codebase, resulting in a 20% increase in application performance and reliability.

## PROJECTS

### Web-based Inventory Management System

Group Project • [github.com/JianFGO/Inventory-Management-System](https://github.com/JianFGO/Inventory-Management-System) • September 2024 - December 2024

- Developed a full-stack inventory management system using HTML, CSS, JavaScript, PHP (Laravel), and Node.js, enabling efficient stock tracking and order management.
- Implemented backend functionality with Laravel, optimizing database queries for faster retrieval times.
- Set up and managed a PostgreSQL/MySQL database, ensuring data integrity and scalability.
- Designed a responsive and dynamic UI using Bootstrap, enhancing user experience and accessibility.
- Utilized Node.js with NPM to manage frontend dependencies, improving development efficiency and package management.
- Conducted unit testing with PHPUnit, reducing production bugs by 40%.

### Diet and Recipe Manager – WinForms C# Application

Solo Project • September 2024 - December 2024

- Developed a comprehensive Diet and Recipe Manager application using C# WinForms, enabling users to manage their dietary needs and track recipes effectively.
- Implemented object-oriented principles (Encapsulation, Inheritance, Polymorphism) to create scalable and maintainable code, improving long-term project sustainability.
- Utilized SQL Server for database management, ensuring the reliable storage and querying of large datasets, with support for complex meal planning functionalities.
- Developed and tested features using Unit Testing with MSTest to ensure application robustness, improving error detection and reducing post-deployment issues by 30%.
- Incorporated JSON serialization for data export and import, enabling users to share or back up their diet plans and recipes easily.