

Ashley Tze Le Sum

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EDUCATION

San Francisco State University | San Francisco, CA

Jan. 2025 - Present

B.S. in Computer Science

- **Relevant Courses:** Data Structures, Object-Oriented Programming, Linear Algebra, Statistics
- **Honors:** Dean's List

Inti International College Subang | Malaysia

Aug. 2023 - Dec. 2024

American Degree Transfer Program, Applied Science

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, C++

Frameworks & Libraries: Flask, Tailwind CSS, Android SDK

Tools: Git, GitHub, Android Studio, Visual Studio Code, Odoo ERP, REST APIs, MQTT

RELEVANT EXPERIENCE

OSPIT Mobility Sdn. Bhd. | Malaysia

Jun. 2026 - Aug. 2026

Software Development Engineer Intern

- Research and developed a **highway digitalization platform** integrating IoT infrastructure, traffic management systems, enterprise asset management, and executive intelligence to modernize highway operations.
- Developed an interactive **Rest & Service Area (R&R) directory** for **6 highway service locations** by transforming engineering drawings into scalable web-based maps, improving digital navigation and facility visualization.
- Developed ePOS-compatible print gateway that routed cloud point-of-sale jobs to **multiple ESC/POS thermal-printer models**, reducing hardware costs by **up to 70%**

Zengo Corporation Sdn. Bhd. | Malaysia

Jun. 2024 - Sep. 2024

IT Support

- Provided technical support and troubleshooting for internal users and enterprise systems.
- Developed an inventory tracking application that automated stock calculations, reducing manual processing by approximately **50%**.

PROJECTS

SplitWise | *Swimming Analytics Platform*

May. 2025

- Developed a full-stack analytics platform for competitive swimming by processing split times, stroke counts, and performance metrics.
- Designed interactive dashboards to visualize athlete performance trends and generate data-driven insights.

LEADERSHIP EXPERIENCE

San Francisco State University Campus Recreation | San Francisco, CA

Apr. 2026 - Present

Student Lead (Aquatics)

- Supervise and mentor lifeguard staff while coordinating daily aquatic facility operations.
- Lead scheduling and onboarding to maintain safe and efficient operations.

Selangor Aquatics | Malaysia

Technical Official (Volunteer)

- Assisted in officiating national-level swimming competitions, ensuring compliance with competition rules and accurate race operations.