

Josh Edward Lui

2886 Rosalina Village, R. Duterte Street, Banawa, Cebu City, Cebu 6000 • 23102689@usc.edu.ph • 09684165026

Education

University of San Carlos	Cebu City, PHI
BSIT-2. GPA [1.36]	2023 - Current
Relevant Coursework: Deans List (2023-2025)	
Bethany Christian School	Cebu City, PHI
Grade 1 – Grade 12 (STEM)	2010 - 2023

Projects

<u>Collaborative Drawing Web App</u>	Cebu City, PHI
Full Stack Developer	May – June 2025
<ul style="list-style-type: none">Developed a real-time collaborative whiteboard using HTML5 Canvas API, React.js, and Socket.IO for WebSocket communication.Utilized MongoDB for session persistence and drawing history.Deployed on a self-hosted local server.	
<u>Hotel Management System</u>	Cebu City, PHI
Backend Developer	March – May 2025
<ul style="list-style-type: none">Designed and implemented a scalable microservices-based hotel booking platform using Docker, Hasura, Go, and PostgreSQL.Developed services for rooms, bookings, payments, and user authentication with secure JWT handling.Integrated GraphQL APIs with Hasura and implemented RBAC for role-based access control.	
<u>LAPD Crime Analysis</u>	Cebu City, PHI
Project Lead	Sept – Dec 2024
<ul style="list-style-type: none">Built a crime trend analysis platform using SQL Server and SSIS for ETL processes.Loaded and transformed data from flat files into a data warehouse schema.Designed dashboards for visualizing crime patterns over time and location.	
<u>IP Telephony System</u>	Cebu City, PHI
Project Lead	Nov – Dec 2024
<ul style="list-style-type: none">Implemented a multi-branch VoIP communication network using Cisco Packet Tracer.Applied high-availability configurations (HSRP) and documented troubleshooting steps.Created detailed network diagrams and configuration scripts.	
<u>2D Roguelike Game</u>	Cebu City, PHI
Game Developer	Jan – Feb 2025
<ul style="list-style-type: none">Built a procedurally generated 2D roguelike game in C# and Unity, featuring infinite dungeon layouts and randomized shop.Used OOP principles to design modular systems for items, character classes, and abilities.Implemented class-based combat mechanics, ability cooldowns, and scalable enemy encounters.	
<u>University Marketplace System</u>	Cebu City, PHI
Project Lead	Jul – Aug 2024
<ul style="list-style-type: none">Developed a university-focused e-commerce site using HTML, CSS, JavaScript, PHP, and MySQL.Integrated real-time chat using WebSockets and secure authentication for users.	
<u>FIES Data Analysis</u>	Cebu City, PHI
Lead Author	Jul – Aug 2024

- Conducted a quantitative study using PSA Family Income and Expenditure Survey (FIES) data from 2003–2021.
- Applied ANOVA and Tukey tests to identify income gaps and regional disparities in saving/spending patterns.
- Visualized regional economic behavior using statistical tools and Excel-based analytics.

Leadership & Activities

USC CISCO Student Council

Cebu City, PHI

Vice President of Internal Relations

2025 - now

- Oversaw coordination and execution of internal council operations and school events.
- Led internal communication strategies, with clear documentation, regarding problems in schools involving students and teachers.

Internal Relations Officer

2024 - 2025

- Organized and facilitated internal communication between council members and various student organizations.
- Coordinated tech-related events.

Certifications and Programs

Data Analyst Associate – DataCamp

Issued: May, 2024 | Expires: May, 2026

- Completed coursework and hands-on exercises in data cleaning, visualization, and statistical analysis using Python and SQL.

Certificate of Completion: Python and AWS Elective Course – Zuitt

Issued: May, 2025

- Learned Python scripting and basics of cloud computing using AWS.

Global Business Summer Camp (3rd Place Winner) – Saigon Business School (SBS), Vietnam

Issued: April, 2025

- Engaged in a hackathon-style innovation challenge to enhance SBS's mobile learning ecosystem.

CCNAv7: Switching, Routing, and Wireless Essentials – Cisco Networking Academy

Issued: January, 2025

- Acquired hands-on skills in LAN/WAN, routing protocols, VLANs, wireless technologies, and troubleshooting network devices.

Summer School Program – Asian Institute of Technology (AIT), Thailand

Issued: August, 2024

- Participated in a two-week international program focused on innovation, sustainability, and digital transformation.

Understanding the Internet (Blended Learning) – Keio University & APIE (Asia Pacific Internet Engineering Program)

Issued: April 2024

- A 4-week course introducing the history, structure, governance, and operations of the Internet. Covered topics include Internet architecture, infrastructure engineering, and the learner's role in cyberspace.

Complete Python Zero to Hero Bootcamp – Udemy

Issued: October, 2021

- Comprehensive training in Python from basics to advanced topics, including OOP and web scraping.

Skills & Interests

Programming Languages: C, C#, SQL, Python, HTML, CSS, JavaScript, PHP, Java

Database & ETL Tools: MongoDB, PostgreSQL, Supabase, Microsoft SQL Server, SSIS

Web & App Development: React.js, WebSockets, Canvas API, RESTful API design, responsive UI/UX, secure authentication

Networking & Infrastructure: Cisco Packet Tracer, GNS3, HSRP, VLANs, VoIP

DevOps & Tools: Docker, Docker Compose, Git, Hasura, JWT, GraphQL, Visual Studio Code, Jira

Languages: English (fluent), Bisaya (native), Tagalog (conversational), Chinese (conversational)

Data Science & Visualization: Excel, ANOVA, Tukey test, data cleaning, dashboard design

Soft Skills & Interests: Peer mentoring, technical writing, public speaking, open-source contribution, community-led learning

