

Mark Jason Esguerra

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SKILLS

Languages & Frameworks: JavaScript (ES6+), Java, C, C++, React.js, Node.js, Express.js, HTML5, CSS3

Tools & Databases: Git, GitHub, MySQL, Vercel, Railway, Figma, Arduino, VS Code

Core Concepts: Full Stack Development, REST APIs, UI/UX Design, Authentication Systems, Database Design, Web Security

IT Infrastructure & Support: Hardware & Software Troubleshooting, Network Configuration, Windows Environment, Microsoft 365, Computer Systems Servicing.

PROFESSIONAL EXPERIENCE

Associated Labor Unions (ALU) – Cubao, Quezon City

Feb 2026 – May 2026

OJT – Junior IT Personnel / Web Development Intern

- Co-developed LaborConnect, a full-stack union management prototype using React, Node.js, and MySQL, digitizing membership processing workflows for one of the Philippines' largest labor unions (30K+ members).
- Conducted cybersecurity research and produced IT policy documentation covering system hardening, access control, and data protection standards.
- Resolved hardware, software, and network issues for 10+ workstations, maintaining uptime across daily union operations.

Custom Inventory Management System (Freelance)

Aug 2025 – Oct 2025

Full Stack Developer

- Designed and delivered a local-first inventory system using React.js and Node.js for a private logistics client, fully replacing a paper-based stock tracking process and cutting manual record entry time by an estimated 70%.
- Engineered a comprehensive audit log system tracking all data changes (insert, update, delete) to ensure accountability and data integrity.
- Built a Soft Delete and recovery feature using MySQL transactions, enabling safe one-click restoration of accidentally removed records with zero data loss.

FEATURED PROJECTS

LaborConnect Web App

April 2026

Thesis, Full Stack Developer. Award: 2nd Place Overall in IT, TUP Research Colloquium

- Developed a secure full-stack web platform for labor union management using React, Express, and MySQL, with multi-factor authentication (TOTP) and multi-login (Email/OTP and Google OAuth).
- Built a membership queue and approval workflow system, dynamic PDF generation, and a custom reporting and audit logging system for tracking user activity.
- Deployed using Vercel (frontend) and Railway (backend/database); integrated Stripe, Gmail, Cloudflare, and AI services.

MarkCart E-commerce Web App

Nov 2024 – Jan 2025

Project Based, Full Stack Developer

- Developed a full-stack e-commerce platform with two-factor authentication (2FA), cart, orders, and vouchers.
- Engineered a responsive React frontend covering product browsing, order history, user profiles, and a full-featured admin dashboard, backed by a Node.js/Express/MySQL API.

EDUCATION

Bachelor of Science in Information Technology

2022 – Aug 2026 (Expected)

Technological University of the Philippines – Manila. Expected Honor: Magna Cum Laude

Science, Technology, Engineering, and Mathematics

2020 – 2022

Parañaque National High School – Main. With High Honors

CERTIFICATIONS

Google IT Automation with Python Professional Certificate (In Progress),

Coursera – Completed: Crash Course on Python, Using Python to Interact with the Operating System

Jun – Present

Cisco Networking Academy (DICT-ITU DTC), Network Defense Certification

Jan 2026

e-TESDA Computer System Servicing NC II, Online E-Certification

Aug 2024

Google Cloud Skills Boost: Generative AI Fundamentals, Introduction to Large Language Models, Responsible AI

Oct 2023 – Feb 2024

AWARDS

2nd Place Overall in IT, TUP – Manila Research Colloquium (LaborConnect)

4th Placer, UI/UX, Hawk-A-Thon Hackathon (kAln)

EXTRACURRICULAR ACTIVITIES

Google Developer Groups on Campus, Member

2024 – 2026

Tech Transfer Outreach, Student Mentor & Facilitator

Nov 2024

COMPASS, Member

2022 – 2026