

Emmar Christian Echano Perez

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SKILLS

Programming Languages: SQL (PostgreSQL), Python (NumPy), JavaScript
Frontend Development: HTML, CSS, Bootstrap, Tailwind, React.js
Backend Development : Node.js, Express.js, EJS, RESTful API development
Database Tools: PostgreSQL, Firebase
Tools & Environments: Git, VS Code, Postman, IntelliJ IDE, Burp Suite, Zap

WORK EXPERIENCE

Sophie's Information Technology Services (January 2025 – May 2025)

Quality Assurance Tester Intern | Technologies Used: Postman, JMeter, Trello, IntelliJ

- Gained hands-on experience in writing test cases and performing functional, regression, and performance testing, while effectively reporting defects to developers
- Created and executed test plans, logged defects, and collaborated with team members using Trello.
- Successfully identified a critical issue before deployment and client delivery, ensuring project quality.

Epson Precision Philippines Incorporated (Oct 2020 – March 2021)

Production Operator

- Performed visual inspections and basic quality checks on finished products.
- Assembled printer components and units following standard work instructions.

EDUCATION

STI College Lipa | Lipa City Batangas, Philippines

Bachelor of Science in Computer Engineering (Sept 2021 – Jul 2025)

- Honor: Loyalty Awardee (General Weighted Average: 1.81)

STI College Lipa | Lipa City Batangas, Philippines

Academic Track: General Academic Strand (GAS)

- General Weighted Average: 86

CERTIFICATIONS

- Full-stack Web Development | Udemy (Jan 2026)
- Data Analytics Essentials | Cisco (Nov 2025)
- Software Testing | Udemy (Sept 2025)
- Certified in Cybersecurity | ISC2 CC (August 2025)

PROJECTS & EXTRACURRICULARS

Full-Stack Task Management Application (Jan 2026)

Technologies Used: React.js, Tailwind, Express.js, Node.js, PostgreSQL, Axios, bcrypt, JWT, dotenv, CORS

- Developed a full-stack Kanban-style task management application with boards, lists, and cards, featuring real-time analytics dashboard with progress tracking, priority indicators, and overdue task monitoring.
- Built RESTful API with Express.js and PostgreSQL handling complete CRUD operations, secure authentication middleware, and authorization checks across all endpoints.
- Implemented JWT-based authentication with bcrypt password hashing and protected sensitive data using environment variables and .gitignore.

Best Capstone Project

Issued by: STI College Lipa, June 2025

Android-Based Automated Feeder and Monitoring System for Koi Aquarium (Dec 2024)

Technologies Used: C++, Firebase, Arduino, Esp32, Android Studio

- Led hardware design and development, building complete circuit and integrating water quality sensors (pH, TDS, oxygen, temperature) with ESP32 microcontroller and LCD display.
- Designed and implemented automated feeding mechanism with servo motor, programming Arduino code for timed feeding control and motor operations
- Programmed embedded firmware in C++ using Arduino IDE to continuously read sensor data, process measurements, and display real-time water quality metrics on LCD screen