

# Emmar Christian Echano Perez

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## SUMMARY

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Computer Engineering graduate with proven QA testing experience and growing expertise in full-stack web development. Through self-study and hands-on projects, I've built web applications using SQL, JavaScript, React, Node.js, and PostgreSQL. I'm skilled at troubleshooting and debugging, with a strong ability to identify root causes and implement reliable solutions. My engineering training gives me a solid technical foundation to quickly learn and apply new technologies.

## SKILLS

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**Programming Languages:** SQL, Python, JavaScript, PHP

**Frontend Development:** HTML, CSS, Bootstrap, Tailwind, React.js

**Backend Development :** Node.js, Express.js, EJS, RESTful API development, PHP, PostgreSQL

**Tools & Environments:** Arduino, ESP32, Git, VS Code, Trello, Postman, IntelliJ IDE, Burp Suite, Zap, Linux

## WORK EXPERIENCE

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### Sophies Information Technology Services (January 2025 – May 2025)

*Quality Assurance Tester Intern / Technologies Used: Postman, JMeter, Trello*

- Wrote comprehensive test cases and performed functional, regression, and performance testing to ensure software quality and reliability.
- 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 (Oct 2020 – May 2021)

*Production Operator*

- Assembled printer components and conducted inspections to ensure products met company standards and specifications.
- Followed standardized procedures and maintained a safe, organized, and efficient workstation.

## EDUCATION

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### STI College Lipa | Lipa City Batangas, Philippines

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

## CERTIFICATIONS

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- 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

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### Full-Stack Task Management Application (Jan 2026)

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

- Developed a Kanban-style task management system with boards, lists, and cards.
- Implemented RESTful APIs with full CRUD functionality and role-based authorization.
- Secured user authentication using JSON Web Tokens (JWT) and bcrypt password hashing, with environment variables for sensitive data protection.
- Designed responsive UI with Tailwind CSS and integrated PostgreSQL database with normalized schema for efficient data management.

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

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

- Designed and integrated hardware sensors (pH, TDS, temperature, oxygen) with ESP32.
- Built automated feeding system using servo motors and timed controls.
- Awarded Best Capstone Project by STI College Lipa (June 2025).