

Negros Occidental,  
Philippines

John Lester Villarde

09306030090  
villardejohnlester@gmail.com

My core expertise lies in backend development, where I specialize in building web APIs with technologies like **Node.js** and **Python**. At the same time, I'm also capable of building my own frontend using modern tools like **React** and **Tailwind CSS**, which enables me to deliver complete full-stack solutions.

Portfolio: <https://jlvillarde.vercel.app/>

## Relevant Experience

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### Python Trainee

Jun - Aug 2025

NOLITC Python Programming

- Gained solid understanding of **Python basics to advanced concepts**.
- Learned and applied **Object-Oriented Programming (OOP)** principles.
- Studied **software design principles** and **common design patterns**.
- Built a **Budget Tracker application** as a capstone project.
- Worked with **Python 3** and explored key **frameworks and libraries**.

### Backend Developer OJT/Intern

Feb - Jun 2025

PAGENET IT Solutions

- Developed a **defect inspection system** for semiconductor packages.
- Implemented **computer vision techniques** using Python and OpenCV for automated inspection.
- Optimized the inspection process to achieve **under 500ms per image**, ensuring real-time performance.

### Fullstack Developer

Sep - Dec 2024

BCC Web-based E-voting System, Capstone Project

- Served as **Developer** in the capstone project: **BCC Web-Based E-Voting System** for Bago City College.
- Integrated the system with the **school portal**, enabling students to log in with their official school accounts, ensuring only BCC students could vote.
- Implemented a **real-time dashboard** using Socket.IO and built **analytics features** to provide insights from past elections
- The system was **officially recognized by the school** and deployed in the **college-wide student election**
- Acted as **system administrator** during the live implementation, ensuring smooth operation for over **5,000 students**
- Successfully maintained **system stability and reliability** throughout the election process

## Technologies and Languages

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- Backend: Nodejs, Express, NestJS, FastAPI, PHP
- Frontend: React, TailwindCSS, HTML, CSS
- Database: Mysql, Postgresql
- Languages: Javascript, Typescript, Python
- Tools: Git, Github, Vercel, Render, Supabase

## Education and Certifications

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- **Bachelor of Science In Information System**, Bago City Collge.

2021 - 2025

## Projects

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### BCC Web-Based E-Voting System

*Technologies:* Nodejs , Express, Typescript, Mysql, TailwindCSS

- Developed a secure e-voting system for **Bago City College**, integrated with the school portal for student authentication
- Implemented a **real-time dashboard** with live election reports and analytics
- Successfully deployed and **used in the official school-wide student election** with over 5,000 students
- <https://www.facebook.com/share/p/1AfjJX99td/> - related to the election conducted using the system

### Budget Tracker

*Technologies:* Python 3+, FastAPI, React, PostgreSQL, Supabase

- Built a full-stack budget tracking application with interactive charts for expense analysis (by category, monthly, weekly, daily, and weekday trends)
- Designed with **modern API principles** (caching, content negotiation) and a **responsive frontend** for mobile & desktop
- Provides users with insights into spending habits and easy budget management
- Live Demo - <https://fastapi-budget-tracker.onrender.com/>