Serge Trever B. De Guzman

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EDUCATION

National University Laguna
Bachelor of Science in Computer Science

KM 53 Pan-Philippine Hwy, Calamba City, 4027 Laguna
July 2021 - July 2025

- GPA: 3.5/4.0 | Honors: *Cum Laude*

Calamba Doctors' College
Science, Technology, Engineering, and Mathematics

Virborough Subdivision, Calamba City, 4027 Laguna
June 2018 - March 2020

- GWA: 93 | Honors: *With Honors*

EXPERIENCE

Nordic Heel Unlimited Inc.

168 San Vicente Road, Barangay San Vicente, San Pedro City, Laguna
January 2025 - February 2025

Information Technology Intern

- Developed an IT asset and inventory management system with database, UI, dashboard visualization, and backend functionality.
- Debugged, and enhanced the company's HR system, application, and manpower requisition form.
- Received a job offer upon internship completion in recognition of strong software development skills, demonstrated adaptability, and a collaborative work ethic.
- Programming and tools: PHP, HTML5, CSS3, PhpMyAdmin, XAMPP, Visual Studio Code.

Torres Technology Center Corporation.
Work Immersion Trainee

YTMI Realty Special Economic Zone 1, Calamba City, Laguna
November 2019 - December 2019

- Practiced basic command lines and C++ with a focus on best practices, work ethics, and proper naming conventions.
- Commended for exceptional performance, receiving "Most Responsible" and "Most Cooperative" for outstanding awards.

PROJECTS

Survey/Questionnaire Web Application

- Developed a web-based survey/questionnaire application that lets users create and manage questions with MySQL database integration.
- Added a login and register feature, view and collection of responses, and URL generation for sharing.
- Programming and tools: PHP, Laravel, HTML5, CSS3, PhpMyAdmin, XAMPP, Visual Studio Code.

Paper Recyclability Detection using YOLOv8

- Developed and implemented a real-time object detection and classification model using YOLOv8 for recyclable paper classification based on defined criteria, aimed at improving paper waste sorting and advancing research in computer vision and AI integration.
- Implemented data augmentation techniques to improve the model's generalization and achieved an accuracy of 95.6%.
- Created and preprocessed a custom dataset for training the model. Test the Model, view dataset, and additional details are available on my GitHub and Roboflow.
- Programming and tools: Python, Jupyter, Pytorch, CUDA, and Roboflow.

SKILLS

Frontend: JavaScript, HTML5, CSS3, React.js | **Backend:** PHP, Node.js, Express.js | **Database:** MySQL, PostgreSQL, PhpMyAdmin
AI/ML: Python, Pytorch, CUDA
Tools: Visual Studio Code, postman, Jupyter, XAMPP, pgAdmin4, Git, Roboflow
Certifications/Awards: The Complete Full-Stack Web Development Bootcamp (Udemy), Most Responsible, and Cooperative (Torres Tech), TOEIC (Listening & Reading – 885/990), Cum Laude (National University Laguna)