

Miguel Antonio D. Chavez

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ABOUT ME

Full Stack Developer with a special interest in Data Science, Machine Learning Operations, Backend Development and Data Engineering.

SKILLS

Programming Languages: Python, Java, PHP, Javascript

Databases: MySQL, SQL, SQLite3

Web Development: Laravel, Bootstrap, HTML, CSS

Data Science: Pandas, Numpy, Matplotlib, Seaborn, BeautifulSoup4, Tensorflow, Keras, Scikit-Learn, Ultralytics, Jupyter Notebook

PROFESSIONAL EXPERIENCE

St. Vincent College of Cabuyao

August 2024 - Present

College Instructor

- Developed and delivered syllabi, lectures, course materials, and assessments for Introduction to Computing, Human-Computer Interaction, Information Management, Intermediate Programming, and Object Oriented Programming courses.

Freelance

August 2024 - Present

Full Stack Developer

- Designed and deployed a Laravel 12 Management Information System alongside a legacy PHP 5.6 POS on Windows Server 2012 R2 (XAMPP/Apache), implementing multi-PHP configurations for backward compatibility.

Ionics EMS, Inc.

July 2023 - September 2023

Web Development Intern

- Led the development and implementation of a real-time IOT dashboard, leveraging WebSockets and the MQTT protocol.
- Assisted in designing, developing, and maintaining responsive web-based applications using HTML, CSS, Javascript.
- Collaborated with senior developers to implement front-end and back-end features, following best practices in clean code and version control

EDUCATION

Asian Institute of Management

July 2025 - Current

Master of Science in Data Science

De La Salle University - Dasmariñas

August 2020 - August 2024

Bachelor of Science in Computer Science

PROJECTS

Enrollment Management System

September 2025

- Designed, developed, and deployed a web-based system with curriculum management, admissions, enrollment, and point-of-sales modules.
- Technologies used: Laravel, BootStrap, HTML, CSS, Javascript, PHP, MySQL, Apache, Git, Github, SSH

Surface Crack Detection Web Application

July 2024

- Trained a deep convolutional neural network for segmenting surface cracks on concrete using YOLOv8.
- Developed a web application with Gradio and implemented the trained model.
- Technologies used: Python, Gradio, Huggingface, Roboflow

Web-based IoT Dashboard

September 2023

- Developed a database for receiving MQTT payloads, registering devices, and accessing last recorded state upon web application start.
- Designed and implemented front-end with dynamic UI, live data visualization, and live MQTT messages using websockets.
- Technologies used: HTML, CSS, Bootstrap, Javascript, PHP, Python, MySQL, MQTT, Websockets