

Isaac Thomas A. Ungui

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Computer Science fresh graduate that is passionate about Data Science, Artificial Intelligence and Software Engineering with practical experiences in Machine Learning.. Oriented and enthusiastic towards building innovative data-driven solutions and committed to continuous learning. Eager to contribute technical skills as a Data Scientist, grow, and be trained as a part of a professional development team in software development and data science.

SKILLS & INTERESTS

- Languages and Stacks:** Python (TensorFlow, Scikit-learn, Flask, Numpy, Pandas, Matplotlib), MySQL, SQLite, Supabase, MariaDB, OpenAI, JavaScript (Next.js, React), PHP (Laravel), HTML, CSS (Tailwind, Bootstrap), C, C++, Java, Docker
- Developer Tools:** Jupyter, Visual Studio Code, JetBrains IDE, Bash, Notion, Git, Github, Figma, Postman
- Skills:** Dataset Generation & Data Pipelines, Data Preprocessing & Feature Engineering, Data Visualization, Data Research and Analysis, Machine Learning, Automation, Computer Vision, Full-Stack Development, Backend Development, API Development,, Version Control, Problem Solving, Attention to Detail
- Interests:** Artificial Intelligence, Machine Learning, Data Science and Engineering, Computer Vision, RAG (Retrieval-Augmented Generation), LLMs (Large Language Models), Generative AI, Software Engineering, Back-end Development

EXPERIENCES

Capiz State University - Research Development and Extension Center2025

Full Stack Developer Intern

- Designed and developed an end-to-end decision support system using Next.js framework, handling full-stack responsibilities across front-end, back-end, and data layers
- Engineered and implemented a relational database schema in Supabase to manage structured data for forms, notifications, user information, and activity logs.
- Implemented backend data processing pipelines for handling and validating incoming form data, leveraging Supabase for real-time database operations and state updates.

PROJECT LODI - Department of Science and Technology - Planning and Evaluation Services2024

Developer Intern

- Contributed on the full-stack development of the concerned department’s website using Bootstrap and Laravel framework.
- Implemented data rendering on the front-end by fetching and displaying data from the database using MariaDB/MySQL to support data integrity and efficient queries.
- Created relational database tables in MariaDB/MySQL based on user requirements to establish relationships between tables.

PROJECTS

Counting Scylla serrata (Mud Crab) Larvae Using Single Shot Detection Mobilenet V2 Featured2024-2025

Pyramid Network Lite From a Captured Image

- Designed and implemented a computer vision system for detecting and counting crab larvae using Tensorflow for developing a custom-trained object detection model on annotated larvae image dataset and using OpenCV for creating a processing pipeline for counting larvae on large resolution images.
- Curated a crab larvae dataset on controlled environments using Raspberry Pi Camera Module 3, applying preprocessing techniques to ensure suitability for model training.
- Created a full-stack web application designed for tracking crab larvae count using Next.js (front-end), Django (back-end), and SQLite (database), integrated with the computer vision system.
- Configured the Raspberry Pi 5 to be a local web server and deployed the web application with Docker, enabling wireless access through the Raspberry Pi 5 hotspot’s IP address.

AgapPanahon2024

- Developed an unsupervised machine learning model with Isolation Forest for the anomaly detection in hydromet sensor functions feature of the web application using Scikit-learn
- Built a supervised machine learning model with Random Forest for predicting hydromet battery status feature of the web application using Scikit-learn
- Preprocessed and feature engineered historical weather and hydromet station data to enhance model performance using Pandas, and visualized data for exploratory data analysis using Matplotlib
- Implemented the developed machine learning models using Flask on the backend

Tahungan ni Geneva2023

- Developed a Point of Sale (POS) system in Java that utilizes the Swing GUI Toolkit and has features that implement CRUD using MySQL as a database; track user transaction records, product information, stocks, and inventory information; and simple user personalization.

Daily Time Record2022

- Developed a Daily Time Record with a command line interface in C language for employees to time in and timeout and compute the salary based on hours worked, undertime, and overtime.

CERTIFICATIONS

Python Data Associate | DataCamp2025

datacamp.com/certificate/PDA0011420719556

EDUCATION

Capiz State University - Dayao Satellite College2021- 2025

Bachelor of Science in Computer Science

Honors: DOST Undergraduate Scholar (RA 7687) | Data Engineering Pilipinas x Datacamp Scholar |

Magna cum laude

Courseworks: Intelligent Systems, Information Management, Business Analytics, Software Engineering, Object-oriented Programming