MARIA LOURDES T. VILLARUZ

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Github | | LinkedIn

EDUCATION

Technological University of the Philippines - Manila　　　　**September 2021 – August 2025**

Bachelor of Science in Computer Science – Cum Laude

- **Coursework:** Object-Oriented Programming, Web Development, Data Structures, Software Engineering, Artificial Intelligence, Human-Computer Interaction

EXPERIENCE

NOAH Business Applications　　　　**February 2025 - May 2025**

Business Applications Developer Intern

- Performed manual testing on ESS, HRIS, and TP modules, ensuring functionality, usability, and consistency across different versions and deployments.

- Created and validated test case scenarios and contributed to technical documentation to support quality assurance and project deliverables.

- Executed System Integration Testing (SIT), User Acceptance Testing (UAT), and demo testing to validate business requirements and ensure system readiness across testing cycles.

- Collaborated with developers and project teams to report, track, and verify bugs, contributing to system reliability and overall quality improvement.

PROJECTS

TUPScholarly - Information Retrieval System V2 [GitHub]　　　　**August 2024 - April 2025**

- Designed and developed a comprehensive academic repository that automatically tags uploaded undergraduate thesis PDFs using text network analysis, with dynamic search functionality, real-time filtering, and intuitive navigation for efficient information retrieval.
- Led the design and development of the UI, backend, and frontend components for seamless user interaction.

TUP Corner – Information Retrieval System V1 [GitHub]　　　　**April 2024 - June 2024**

- Designed and developed a comprehensive academic repository with dynamic search functionality, real-time filtering, intuitive navigation for efficient information retrieval, and features allowing users to request full PDF access, with different access permissions for user and admin roles.
- Designed and developed the user interface, ensuring a seamless and user-friendly experience across devices.

Mabaya- Flower Detection Mobile Application　[GitHub]　　　　**September 2023 - January 2024**

- Developed a mobile application in Java (Android Studio) that integrates a YOLOv5 model converted into TensorFlow Lite for offline, real-time flower detection and recognition.
- Implemented features such as image capture or upload, display of detection labels with confidence scores, and a lightweight, user-friendly interface for seamless use.

ADDITIONAL INFORMATION

- **Technical Skills:**
  - Frontend – End Development: C, C++, HTML, CSS, Java, JavaScript, React, Tailwind
  - Backend – End Development: PHP, Laravel, Python
  - Database Management: MySQL
  - Version Control: Git, GitHub
- **Certifications:**
  - Web Development Masterclass (Udemy)

- Code Yourself! An Introduction to Programming (Coursera)
- HTML, CSS, and JavaScript for Wed Developers (Coursera)