

Eulalio I. Oaquiera

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Professional Summary

Computer Science Program Head and Systems Developer specializing in academic leadership, database systems, and full-stack web application development. Experienced in designing and deploying web-based institutional platforms including class scheduling systems, tabulation systems, online examination systems, employability test management systems, and automated event systems.

Demonstrates strong expertise in SQL, relational database design, and backend development using Python (Flask) and MySQL. Recognized for bridging theory and practice by integrating real-world system architecture into Computer Science education.

Core Competencies

Academic Leadership & Instruction

- Program Management & Coordination
- Curriculum Development (Outcome-Based Education)
- SQL & Database Systems Instruction
- Data Structures & Algorithms Teaching
- Capstone Project Supervision
- Academic Assessment & Evaluation

Systems Development

- Full-Stack Web Development
- Python Programming
- Flask Framework
- HTML5, CSS3, JavaScript
- CRUD System Development
- Authentication & User Management
- System Architecture Design

Database & Data Engineering

- SQL & MySQL
- Relational Database Design
- Data Modeling & Normalization
- Query Optimization
- Data Reporting & Export (CSV, Excel)

Professional Experience

University of Saint Anthony

Computer Science Instructor

San Miguel, Iriga City, Camarines Sur, Philippines

08/2024 - Present

- Lead and manage the Computer Science program, ensuring curriculum alignment and academic quality standards.
- Teach undergraduate courses including Data Structures & Algorithms, Algorithm and Complexity, Automata Theory, Database Systems (SQL), and Introduction to Programming.
- Develop structured SQL laboratory exercises with real-world database implementation projects.
- Design outcome-based syllabi and assessment tools to enhance analytical and algorithmic thinking.
- Supervise and mentor student system development and capstone projects.
- Integrate applied system design methodologies into classroom instruction.

System Development Projects

Web-Based Examination System

- Designed and developed a secure online examination platform for automated test administration.

- Implemented question bank management, timed assessments, and automatic score computation.
- Integrated user authentication and role-based access (Admin, Instructor, Student).
- Reduced manual checking workload and improved grading efficiency.
- Enabled performance tracking and structured exam analytics.

Web-Based Tabulation System

- Engineered a scoring and ranking platform for academic competitions and institutional events.
- Automated score computation and ranking generation in real time.
- Improved transparency and accuracy of event results.

Automated Bingo Event System

- Designed and implemented a digital Bingo system for institutional events.
- Automated number generation and display logic to ensure fairness and randomness.
- Integrated real-time tracking of drawn numbers.
- Eliminated manual draw errors and improved event engagement.

Education

Camarines Sur Polytechnic Colleges

Bachelor of Science in Computer Science

Nabua, Camarines Sur

01/2020 - 01/2024

La Purisima National High School

Senior High School

Nabua, Camarines Sur

01/2018 - 01/2020

Technical Tools

- Python (Flask)
- MySQL
- HTML, CSS, JavaScript
- Microsoft Office
- Canva / Photoshop
- VS Code
- GitHub

Internship Experience

Programmer Intern

Bureau Of Fire Protection-Nabua

San Roque, Nabua, Camarines Sur

02/2024 - 05/2024

OJT Requirement / Developed for innovation

- Developed a Client Clearance Management System to digitize establishment monitoring processes.
- Implemented authentication modules and secure user sessions.
- Designed full CRUD functionalities for client records and clearance tracking.
- Integrated advanced search, sorting, and bulk import/export features.
- Improved operational efficiency by transitioning from manual to digital workflow.
- Technologies: Python (Flask), MySQL, HTML, CSS, JavaScript

Languages

English

Tagalog

Reference

Mr. Marc Kenny Erasga

Program Head of Computer Science-USANT

La Purisima Iriga City 09705694803