

# Dave Andrew Arafol

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I specialize in ASP.NET (C#) and Laravel development, focusing on creating secure and scalable web applications. I have solid experience working with databases and building web systems that improve efficiency and user experience. I also work with modern tools like JavaScript and React to make applications more dynamic and responsive. On top of that, I have hands-on experience with Arduino and circuit components, giving me the ability to connect both software and hardware for innovative solutions. I'm passionate about building reliable, high-performance software and enjoy sharing knowledge to help others grow.

## Skills

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**Programming Languages:** Python, JavaScript, SQL, NoSQL, C++, C#, PHP

**Specialties:** SQL, ASP.NET(MVC)(C#), PHP LARAVEL, C (Arduino)

**Tools and Frameworks:** Laravel, ASP.NET, Vue.js, Bootstrap

## Certifications

### SUI Blockchain Certified by (Bitskwela & SUI 2025)

[Certificate link](#)

- Gain a strong understanding of blockchain fundamentals, including security, objectives, and practical applications.
- Developed knowledge of Bitcoin and cryptocurrency concepts across different programming languages.
- Explored Rust programming for blockchain development, focusing on smart contracts and decentralized systems.
- Engaged with a community of builders, learners, and Web3 enthusiast to deepen expertise in blockchain and emerging technologies.

### 9<sup>th</sup> TOPCIT Level 3 Passer (March 2023)

- 9<sup>th</sup> TOPCIT Passer

### 11<sup>th</sup> TOPCIT Level 2 Passer (June 2025)

- 11<sup>th</sup> TOPCIT Passer

## Experience

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### INTERNSHIP Web Developer, HCDC ICT – Holy Cross of Davao College

Feb 2025 – May 2025

- Developed HCDC Clinic Meditation System using Laravel and MySQL to support digital health records and management.
- Built an Attendance Tracking System for students and faculty in the laboratory using Laravel 12, MySQL, and Axios for API requests.
- Provided technical support, including troubleshooting PCs, MacOS setups, and resolving software/hardware issues.
- Assisted in network administration, including server configuration, switch setup, and troubleshooting connectivity issues.

## Projects

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### Print Vendo: Wi-Fi-Enabled Portable Printer with Coin Vending Payment System

[project link](#)

- Built a coin-operated Printing Vendo Machine using Visual Basic and Arduino with IoT integration, enabling self-service printing, scanning, and scan-to-drive options. The system supports file uploads via Wi-Fi or USB, auto-detects file properties, and provides customizable print settings with coin-based payment and automatic change dispensing. An admin panel allows control over printer settings, pricing, service availability, and coin withdrawals. This solution improves accessibility and offers affordable, automated printing and scanning for students and faculty.

### HCDC MEDITATION

[project link](#)

- Built a clinic management system for Holy Cross of Davao College using Laravel 12 and MySQL to streamline healthcare services. The platform allows admins to manage patients, doctors, and transactions, while patients can conveniently book appointments online. Doctors can assist patients, provide consultations, and issue prescriptions. It also supports services such as dental checkups and physical/medical examinations, improving efficiency and accessibility in clinic operations.

### HCDC TOOLROOM

[project link](#)

- Developed a tool borrowing management system using C#, MySQL, and barcode scanning technology to automate lending operations for students and faculty. Admins can add and manage tools, track borrowed items, and monitor student borrowers, while the system automatically updates tool quantities in real time when items are borrowed. The platform improves accountability, reduces manual errors, and ensures efficient tool management within the institution.

### Courserec

[project link](#)

- Developed a web application that uses machine learning with PHP to recommend suitable courses based on a person's skills. Designed exclusively for Holy Cross of Davao College, the system evaluates undecided students through skill-based testing and suggests the most appropriate programs such as BSIT, BSCPE, BSECE, and BSBA. It also provides detailed course outlines and guides, helping students make informed academic decisions and aligning their strengths with the right educational path.

### QuizMe

- Developed an interactive quiz application that fetches questions from the Open Trivia Database API, allowing users to select answers, track their scores, view highlighted correct and incorrect responses, and replay quizzes. Built using React functional components, leveraging state management, props, and event handling to create a dynamic user experience. Implemented React hooks (useState, useEffect), conditional rendering, and the map function for efficient list rendering, while integrating external API data to provide randomized, replayable quizzes.

## Education

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### Holy Cross of Davao College – B.S. in Information Technology (Undergraduate)

- Focused on advanced coursework in Laravel, Vue.js, React, ASP.NET, and advance Database