

Dhominick John Billena

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WORK EXPERIENCE

Dexuva - (<https://dexuva.vercel.app>) **West Visayas State University - La Paz, Iloilo City**
Lead System Architect **July 2024 - November 2025**

- As an emerging player in the healthcare sector, Dexuva aims to reduce waiting times from around 2 hours to approximately 5 minutes with technological innovation.
- Led a team of 5 developers in the creation and deployment of an IoT device aimed at streamlining collection and enhancing patient data accessibility and reducing waiting times for patients
- Optimized workflows by reducing the development period of the prototype from approximately 3 months to around 1 month
- Developed comprehensive project timelines and strategic resource allocation plans, maximizing team performance and minimizing project bottlenecks within a startup environment.

Cyb: Robotics **July 2022 - July 2024**
Project Leader *Iloilo City, Philippines*

- Cyb: Robotics Organization is a technology startup specializing in robotics and IoT solutions designed to address complex industrial and environmental challenges.
- Led the WaterQual project, an IoT-based initiative aimed at assessing water quality in mining areas using edge computing for data visualization that monitor water quality across multiple stations, ensuring real-time data collection and analysis.

EDUCATION

West Visayas State University **Iloilo City, Philippines**
Bachelor's Degree in Computer Science *Expected: 2026*
DOST RA7687 Scholar *2023-2026*
Gold Medalist

PROJECTS

EMERGE (<https://www.projectemerge.org>) **Oct. 2024 – Dec. 2025**

- Led development of EMERGE, our undergraduate thesis a disaster risk management system that optimizes emergency responder positioning through road-aware clustering algorithms, optimizing the placement of the responders across 60 barangays in Santa Barbara, Iloilo City
- "Architected an automated risk-visualization framework for the EMERGE system, replacing manual responder dispatch logic with a road-aware clustering algorithm that optimizes positioning across Santa Barbara, Iloilo".
- Minimized the cost of deployment of the system by around 90% from initial implementation using edge computation

StratEdge (<https://stratedge-rica.vercel.app>) **August 2023 - November 2025**

- Lead the StratEdge project in preparation for PSC X - 2025, a regional competition Top 20 finalist
- Optimized the system minimizing cost by around 80% as a prototype from initial implementation

AquaTerra (<https://aquaterra.vercel.app/>) **August 2022 - November 2022**

- Project Leader of this project and the IOT-system designer responsible for the development of the device, web application, and hosting ensuring the communication between the device and the app
- Created the animation for Lumii - the mascot that would represent the plant based on the health indicators such as when the plant is hot, dry, sad, etc.

PROGRAMMING LANGUAGES & INTERESTS

- Skills:** DevOps; Agile Methodologies; Scripting; Git; Docker; Monitoring and Logging; System Optimization;
- Technologies:** NodeJS; Tailwind CSS; HTML; Python; NextJS; Local AI Deployment;
- Interests:** Homelabs; DIY Home Projects; Building Computers; Network Management; Specification Comparison; Exercise; Side Projects;