

JOHN PATRICK YAGO SALCEDO

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SUMMARY

Junior BSIT student focused on full-stack web systems, secure database architectures, and user-centered workflow applications. Experienced in leading agile student development teams from requirements gathering to prototype delivery, with hands-on work in authentication, role-based access, analytics dashboards, and process-driven web tools. Comfortable translating messy institutional workflows into maintainable applications that are easier to test, document, and improve.

EDUCATION

Camarines Sur Polytechnic Colleges – Nabua, Camarines Sur

Aug 2023 – Present

Bachelor of Science in Information Technology

- Earned Dean's Lister honors in AY 2023–2024 1st Sem, AY 2024–2025 2nd Sem, and AY 2025–2026 1st and 2nd Sem.
- Studied Web Systems & Technologies, Advanced Database Systems, Data Structures & Algorithms, and Application Development & Emerging Technologies.

TECHNICAL SKILLS

- **Languages:** JavaScript, PHP, Java, C++
- **Frameworks & Libraries:** Node.js, Express.js, React Native, EJS, CodeIgniter 4, Tailwind CSS, Chart.js
- **Databases & Platforms:** MySQL, Prisma ORM, Git, GitHub, Linux, Apache/XAMPP
- **Development Tools:** VS Code, Figma, GitHub Copilot, Cursor, Antigravity
- **Development Practices:** Agile Development, Spec-Driven Development, Systems Analysis, User Workflow Design, Database Design, RBAC, Testing & Debugging, Technical Documentation
- **Professional Strengths:** Team Leadership, Strategic Planning, Ideation, Analytical Thinking, Attention to Detail, AI Proficiency

PROJECTS

Adaptive CSE-PPT Review Platform (Hauers)

Jan 2026 – Present

Lead Software Engineer, Capstone Project

- **Technologies:** Node.js, Express.js, MySQL, Prisma ORM, EJS, Tailwind CSS, Chart.js
- Architected a full-stack adaptive review system for Civil Service Examination candidates, integrating learner profiling, domain competency analytics, and administrator review workflows.
- Engineered a custom M-Elo-based proficiency algorithm to track per-domain ratings and calibrate adaptive question delivery to individual performance.
- Built Google OAuth 2.0 authentication and role-based session handling to separate reviewee and administrator access paths.
- Designed an ongoing 1,000-question spreadsheet workflow with automated formula columns, clean domain mapping, and analytics-ready fields for future testing and optimization.

Student Council Treasury Management System (SCTMS)

Mar 2025 – May 2025

Team Leader and Lead Programmer

- **Technologies:** CodeIgniter 4, PHP, MySQL, Apache/XAMPP, HTML, CSS, JavaScript, DomPDF
- Designed a centralized, desktop-optimized web application for CSPC Student Councils to replace manual paper ledgers and organize the student fund lifecycle.
- Architected a secure backend implementing strict Role-Based Access Control across five institutional user classes and clearly separated approval responsibilities.
- Developed payment tracking, remittance validation, clearance computation, and PDF report generation modules to support repeatable finance workflows.
- Enforced database integrity through immutable audit trails and mandatory Official Receipt file upload constraints for expenditure tracking.

Lumina – Interactive WLED IoT Companion UI

Apr 2026 – May 2026

Lead System and IoT Developer

- **Technologies:** JavaScript (ES6+), HTML5 Canvas, CSS3, RESTful API, MQTT, WebSockets, OpenWeatherMap API
- Developed a mobile-responsive client-side web application for controlling a WLED smart lamp, including a guided onboarding flow for first-time setup.
- Engineered a physics-simulated digital twin on HTML5 Canvas that reacts to lamp state changes through procedural Vanilla JavaScript animation.
- Implemented hybrid connectivity using local RESTful HTTP for edge control and WebSockets-based MQTT for remote management, with OpenWeatherMap-powered ambient presets.

Unified Cashier-SRR Payment and Appointment Scheduling System (UNI-PASS)

Aug 2024 – Dec 2024

Team Leader and Lead Programmer

- **Technologies:** HTML, CSS, JavaScript, PHP, MySQL
- Developed a full-featured web application to digitalize CSPC Cashier and Student Registration and Records payment and appointment processes.
- Optimized payment and scheduling workflows to make institutional transactions faster, better organized, and less dependent on paper-based coordination.
- Coordinated requirements gathering, feature planning, debugging, and prototype delivery across a student development team.

LEADERSHIP & AFFILIATIONS

BSIT Representative – College of Computer Studies Student Council

AY 2025 – 2026

- Co-chaired the 9th Bicol ICT Research Colloquium, coordinating logistics, speaker support, and event documentation for a regional technology conference.
- Contributed to council-wide projects, event preparations, coordination work, and representative duties supporting academic and student welfare initiatives.
- Drafted and co-sponsored institutional resolutions as a voting legislative council member, and served as Presiding Officer during plenary sessions as Pro Tempore.

CCS Representative – CSPC DOST Scholars' Guild

AY 2024 – 2025

- Prepared trackers, compilations, and working documents for guild initiatives, project coordination, and scholar-related organizational records.
- Represented CCS scholars in guild-wide activities and supported Project Panurat, an outreach program serving the Agta Cimarron Tribe in Pili, Camarines Sur.

Web Officer Volunteer – ScienceKonek

Oct 2025 – Dec 2025

- Contributed to the development and content management of the ScienceKonek WordPress website, strengthening the organization's digital presence and outreach work.

CERTIFICATIONS & AWARDS

- **Professional Eligibility:** CSE-PPT Professional Level Passer, Rating: 91.01%
- **Technical Competitions:** 1st Place, Database Management – TechQuake 2026 and TechXplosion 2025; Top 1, Quiz Bowl – 2025 CCS Sportsfest
- **Scholarships & Honors:** DOST-SEI RA 7687 Scholar; Recipient of Dr. Santiago G. Ortega Full Scholarship, USANT (2022)