

# Bernard Jezua Tandang

📍 Los Baños    ✉ bernardjezuaml@gmail.com    📞 +63 955 536 2117    in bernardjezua    🌐 bernardjezua

## Experience

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**Membership Division Head** Sept. 2025 – May 2026

*Alliance of Computer Science Students - UPLB*

- Spearheaded welfare checks for 100+ members to monitor organizational well-being.
- Executed internal activities and team-building programs focused on strengthening member relations.

**Software Engineer Intern** June 2025 - Aug. 2025

*UPOU ICT Development Office*

- Developed and integrated frontend components for a record system using React, Ant Design, and Sass.
- Collaborated with backend developers to implement secure authentication and API communication.

## Education

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**University of the Philippines Los Baños** Aug. 2021 – July 2026

*Bachelor of Science in Computer Science*

## Awards

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**Top 10**, SIKAPTala 2026 Web Design Competition May 2026

- Designed **Assist-a-Cart**, an accessible e-commerce platform for users with visual and motor impairments, featuring in-app guidance, transparent product details, and a high-contrast layout. It placed **10th out of 81 participants**.

**1st Runner Up**, Protothon 2026: The Online UX Hackathon May 2026

- Designed **Trackify**, an enterprise inventory system featuring real-time tracking, barcode integration, and analytics. The design placed **2nd out of 35 teams** in the Enterprise track.

**1st Runner Up**, 42nd CS Week Warframes Web Design Competition Feb. 2026

- Led the development of **Alerto.ai**, an AI flood intelligence prototype with 3D mapping and SMS alerts; scored **88.875/100** to place **2nd out of 17 teams**.

## Projects

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**OUber: A Web-Based Vehicle Ride-Hailing and Management System** Oct. 2025 - May. 2026

- Developed a full-stack ride-hailing module integrated into UPOU's existing PIVOT platform. It replaced the manual booking process that previously required extensive back-and-forth communication.
- Achieved an overall System Usability Scale (SUS) score of **87.10 (Excellent rating)**, exceeding the industry average benchmark of 68 and **84.2%** of users strongly agreed the system was easy to use.

**Payonnect: Smart Umbrella Sharing System** Oct. 2025

- Simulated the **user workflow** for borrowing and returning an umbrella using QR codes.
- Implemented **typography**, **color palette**, and **UI screens** for tracking rentals, payments, and updates.

**PIVOT-PROFS: Profile & Records Organization for Faculty Service** June 2025 - Aug. 2025

- Conducted a **system requirements gathering** and developed web components from **Figma to React**.
- Developed **profile management** and **faculty portfolio** modules using **Axios**, **Laravel**, and **Lumen**.

**CosMarket: Buy, Sell, and Rent Cosplays** Mar. 2025 - May 2025

- Defined **IA**, **user persona**, and **journey map** from analyzing posts in **local cosplay markets**.
- Conducted a **moderated usability study** of 10 testers, where **80% agreed** that the design was **intuitive**.

**ICS-ASTRA: Alumni Synced Tracker for Relations and Advancement** Feb. 2025 - May 2025

- Transformed **Figma prototypes** into web components using **Next.js** and **Tailwind CSS**.

- Developed and tested frontend modules for the **profile management** and **registration** functionalities.

**Traveler: A Genshin-Inspired Slam Book Mobile Application** June 2024 - July 2024

- Implemented **UI screens, routes**, and **CRUD** functionalities using **Dart, Flutter**, and **Google Firebase**.
- Developed a custom interface with **color palettes** and **styling** to resonate with **Genshin Impact**.

**FastSnap: Quick Mobile Video Editor** Mar. 2024 - May 2024

- Developed **3 user personas** from **10 interviews** for media editing **design decisions** and **storyboard**.
- Implemented **Wizard of Oz** and **5-point Likert scale** usability testing using **between-subjects design**.

**FoodUP: Food and Restaurant Review Application** Feb. 2024 - June 2024

- Integrated **Python** using **MariaDB** via **SQL queries** for filtering and validating **CRUD** functionalities.
- Created page designs from **Figma to Tkinter** and **debugged data inaccuracy issues** in the interface.

**HATID: An E-Commerce Web Application** Nov. 2023 - Jan. 2024

- Designed **webpages** for **product listings, shopping carts**, and **order tracking** using **React.js**.
- Optimized **graphical assets** using **Adobe Photoshop** to enhance the **visual appeal** and performance.

## Skills and Characteristics

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**Programming & Backend:** Python, C, Dart, Java, PHP, JavaScript, R, SQL, Laravel, Lumen

**Frontend & Web Dev:** Git, GitHub, React.js, HTML, CSS, Next.js, Tailwind CSS, Sass, Ant Design, Axios

**Tools & Databases:** Figma, Flutter, Redux, Auth0, MySQL, MariaDB, MongoDB, Google Firebase

**Soft Skills:** Adaptable, Self-management, Proactive, Teamwork, Professional, Active Listener

## Certifications

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<b>Meta Front-End Developer Specialization</b> ( <i>Meta</i> )	February 2026
<b>Digital Customer Engagement</b> ( <i>Google</i> )	December 2025
<b>Microsoft UX Design Professional Certificate</b> ( <i>Microsoft</i> )	November 2025
<b>Google UX Design Professional Certificate</b> ( <i>Google</i> )	May 2025
<b>Web Development Fundamentals</b> ( <i>IBM</i> )	May 2025
<b>Software Engineer Intern</b> ( <i>HackerRank</i> )	April 2025
<b>React Frontend Developer</b> ( <i>HackerRank</i> )	April 2025
<b>Google Agile Essentials</b> ( <i>Google</i> )	March 2025

## Research Publications

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1. Evangelista, B. A., Reyes, E. L., & Tandang, B. J. (2024, December 16). *Reality Check: A Comprehensive Review of AI-Generated Media and Detection Methods*. Available at SSRN: <https://ssrn.com/abstract=5059062> or <http://dx.doi.org/10.2139/ssrn.5059062>.
2. Vispo, R., Peña, J. R., & Tandang, B. J. (2024, January 3). *Exploring the Newest Data Visualization Tools Across Diverse Fields: A Comprehensive Review*. Available at SSRN: <https://ssrn.com/abstract=5059095> or <http://dx.doi.org/10.2139/ssrn.5059095>.