

# Bernard Jezua Tandang

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## Summary

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Aspiring UI/UX developer with a passion for developing intuitive and user-friendly mobile and web applications. Proficient in front-end and mobile development technologies with a recent focus on Flutter. Seeking an internship opportunity to grow my expertise and deliver solutions that enhance user experiences.

## Education

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### University of the Philippines Los Baños

*Aug. 2021 – present*

*Bachelor of Science in Computer Science*

- **Coursework:** Human-Computer Interaction, UI/UX Design, Web and Mobile Development, Databases
- **Scholarship:** DOST-SEI Undergraduate Scholar
- **Organization:** Alliance of Computer Science Students - UPLB

## Experience

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### Membership and Internal Affairs Committee Member

*Nov. 2023 – present*

*Alliance of Computer Science Students - UPLB*

- Built and maintained strong rapport within the organization.
- Planned team-building activities and workshops to foster camaraderie and collaboration among members.

### Culture, Arts and Sports Committee Head

*Oct. 2021 - Oct. 2022*

*UPLB College of Arts and Sciences Freshman Council*

- Drafted the development of a WordPress site for the UPLB CAS Student Council.
- Spearheaded events aimed at fostering appreciation for the culture and arts within the UPLB community.

## Projects

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### Traveler: A Genshin-Inspired Slam Book Mobile Application

[Traveler](#) 

- Implemented all UI screens, routes, and CRUD functionalities using Dart, Flutter, and Google Firebase.
- Developed a custom interface with minimal assets, color palettes, typography, and styling to resonate with Genshin Impact's theme.
- Tools Used: Dart, Flutter, Android Studio, Google Firebase

### FoodUP: Food and Restaurant Review Application

[FoodUP](#) 

- Retrieved data from the MariaDB backend and used SQL queries to filter based on food type, price, and rating and to ensure the CRUD functionalities are working.
- Transformed several pages from Figma to Tkinter and debugged data inaccuracy issues in the interface.
- Tools Used: Python, Tkinter, SQL, MariaDB, Figma

### FastSnap: Quick Mobile Video Editor

[FastSnap](#) 

- Designed a prototype to navigate through features such as video trimming, adding music, and saving files.
- Interviewed potential users and created personas to create intuitive and user-friendly design decisions.
- Tools Used: Figma

### QSPS: Quadratic Spline and Polynomial Solver

[QSPS](#) 

- Designed a user interface with custom CSS to ensure ease of use and aesthetic appeal.
- Built a shiny application using R Shiny that allows users to perform quadratic spline interpolation and polynomial regression analysis.
- Tools Used: R, R Shiny, CSS

## LOLCODE Interpreter

[Interpreter](#) 

- Implemented algorithms in interpreting operations and statements that capture the delimiters and execute depending on their functionality.
- Used Tkinter for the front-end display and a try-except functionality to showcase the program execution.
- Tools Used: Python, Tkinter

## HATID: An E-Commerce Web Application

[HATID](#) 

- Designed several webpages for the application, specifically product listings, shopping cart, and order tracking.
- Optimized images and other graphical assets using Adobe Photoshop to enhance visual appeal.
- Tools Used: React.js, Express.js, Node.js, MongoDB, Adobe Photoshop, CSS

## Viper's Shootout: Mini Shooting Game

[Viper's Shootout](#) 

- Used object-oriented programming (OOP) principles to organize game components into classes and objects.
- Utilized JavaFX's layout management system and integrated multimedia elements from Adobe Photoshop and Canva to create a responsive user interface layout.
- Tools Used: Java, JavaFX, Adobe Photoshop, Canva

## Skills and Characteristics

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**Programming Languages:** Python, C, Dart, Java, JavaScript, R, SQL

**Mobile Technologies:** Flutter, Android Studio

**Web Technologies:** Git, GitHub, Express.js, React.js, Node.js, HTML, CSS

**Database Technologies:** MariaDB, MongoDB, Google Firebase

**Design:** Figma, Canva, Adobe Photoshop

**Characteristics:** Professionalism, Self-management, Adaptable, Eager to Learn, Flexible, Active Listener

## 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>.