Raul B. Barquilla Jr.
Web Developer

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Portfolio Website: [Raul Barquilla Jr. - Web Developer](https://raulbarquilla-portfolio.vercel.app) (https://raulbarquilla-portfolio.vercel.app)

EDUCATION

BICOL UNIVERSITY	**Daraga, Albay**
BS Computer Science. GPA 1.9204	**July 7, 2023**

Thesis: Classification of Emergency-Type Texts using Machine Learning Algorithm
Dean's Lister (3 terms), 2021 – 2023

TABACO NATIONAL HIGH SCHOOL	**Tabaco, Albay**
With Honors, 2018 - 2019	**April 5, 2019**

TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, Vite, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, DaisyUI, Material-UI (MUI)
- **Backend:** Node.js, Express.js, Django, PostgreSQL (Neon), MongoDB, Supabase (BaaS), OAuth, JWT Authentication
- **API Integration:** Custom REST APIs, Email Notification APIs, Authentication/Authorization APIs, Third-party services using Axios & Fetch
- **UI/UX Design Tools:** Figma, Responsive Web Design, Component-based Architecture, Dark/Light Theme Design
- **State Management and Libraries:** Zustand, React Router, Axios, React Hot Toast, React Icons, Chart.js
- **DevOps and Deployment:** Docker, Railway, Render, Vercel, CI/CD basics
- **Testing and Development Tools:** Postman, DBeaver, Git, GitHub, CORS, Helmet, Morgan, Arcjet, ESLint, VS Code
- **AI-Assisted Development Tools:** ChatGPT, Claude AI (code review, debugging, refactoring, documentation support)

PROFESSIONAL EXPERIENCE

THINK AND CLACK	**FREELANCE**
Web Developer	**July 2024 – Present**

- Designed and developed a school administration dashboard supporting user management, organization and event proposal workflows, leaderboards, and real-time statistical visualizations to support administrative decision making.
- Built a web-based medical and clinic management system for institutional use, enabling secure management of student medical records, clinic visits, medical histories, and vital signs, with SMS notifications to parents/guardians based on case severity and role-based access control for clinic staff.
- Led frontend development using Next.js, React.js, and Material UI (MUI), delivering fully responsive interfaces with 100% mobile compatibility.
- Contributed to backend development using Laravel and RESTful APIs, implementing endpoints, request validation, authentication checks, and business logic in coordination with frontend requirements.
- Integrated and tested RESTful APIs using Postman and Bruno, ensuring reliable data flow between frontend and backend services.
- Validated, debugged, and optimized database interactions using DBeaver, improving data accuracy and system reliability.
- Collaborated closely with clients to translate business requirements into functional features, ensuring alignment with operational needs and user expectations.
- Served as team lead, assigning and tracking development tasks via ClickUp, coordinating with co-developers, and ensuring timely feature delivery within project deadlines.

FREELANCING	Remote
Graphic Designer	**2022 – 2024**

- Designed over 20 logos and branding materials for diverse clients, ensuring alignment with their business vision and goals
- Worked closely with clients to refine design concepts and understand their goals
- Delivered high-quality designs using Photoshop and Figma, meeting tight deadlines while maintaining consistent standards

LEADERSHIP & ACTIVITIES

THESIS	Remote
Mobile App Developer and Designer	**October 2022 – March 2023**

- Led the design and development of a front-end mobile application for a thesis project, independently fulfilling project requirements
- Coordinated with the project leader to ensure alignment with academic objectives and technical specifications
- Delivered a fully functional front-end mobile application prototype using Java
- Implemented the most efficient model (SVM with an accuracy of 94 percent) in a mobile application prototype on the Android platform using TFLite

PROJECTS

TRAVELIS – NEXTJS APP
- Developed a full-stack travel booking platform using **Next.js 15, React 18, TypeScript, and MongoDB**.
- Implemented JWT-based authentication with role-based access (User/Admin), secure login, and user profile management.
- Built destination discovery and booking features with advanced search, and real-time availability checks.
- Created a responsive admin dashboard for managing destinations, users, and bookings, with analytics via Chart.js.
- Implemented zustand for state management and Tailwind CSS for modern UI/UX. Deployed the app using Docker and Render,

HAKOMOVIES – REACTJS APP
- Built a responsive movie browsing app using **React.js (Vite) and Tailwind CSS,** integrated with the TMDB API.
- Implemented features to browse trending movies, search by title, and view detailed movie info including ratings and release dates.
- Optimized for performance and mobile responsiveness with a clean, modern UI and fast loading via Vite.
- Deployed the application on Vercel.

HAKOSTORE – PERN APP
- Developed a full-stack e-commerce app using the **PERN stack (PostgreSQL, Express, React, Node.js)** with responsive design and real-time updates.
- Implemented product management features with CRUD operations, image upload, category filtering, and pagination.
- Designed a modern UI with Tailwind CSS, DaisyUI themes, and used Zustand for state management and React Hot Toast for notifications.
- Secured and optimized the backend with Helmet, Morgan, Arcjet rate limiting, and deployed PostgreSQL via Neon.

HAKOMERCH – MERN APP

- Built a scalable **MERN stack (MongoDB, Express.js, React.js, Node.js)** e-commerce platform with modular architecture, clear frontend-backend separation, and Docker-based containerized deployment.
- Developed a responsive UI using React (Vite) and Tailwind CSS, featuring clean components, toast-based error handling, and Zustand for centralized state management.
- Built a robust backend with Express.js, MongoDB (Mongoose), and Multer for secure image uploads, with a well-structured REST API and environment-based config.
- Optimized for performance and future scalability with lazy-loaded images, fast Vite builds, and clean project organization suited for feature expansion.

CERTIFICATIONS

- Udemy: Complete React Developer Masterclass 2022
- Udemy: Web Design for Beginners Build Websites in HTML & CSS 2023
- Udemy: HTML, CSS, & Bootstrap - Certification Course for Beginners 2023

ADDITIONAL INFORMATION

- **Soft Skills:** Strong problem-solving skills, effective communication, team collaboration, decision making, time management, and ability to work independently with minimal supervision.
- **Hobbies & Interests:** Music (piano, guitar), Art (drawing, painting), and Gaming (FPS and MMORPG games)
- **Languages:** English, Filipino, Bikol

CHARACTER REFERENCES *(AVAILABLE UPON REQUEST)*