

Clarissa Albarracin

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Education

De La Salle University Manila

Bachelor of Science in Computer Science - Major in Software Technology

Consistent Dean's Lister

Relevant Coursework: Application Development, Advanced Software Engineering, Empathic Computing

Manila, PH

Aug 2026 (expected)

Technical Skills

Languages: HTML, CSS, JavaScript, TypeScript, SQL, Python, C, C++, Java

Frameworks & Libraries: React, Vue, Tailwind CSS, Node.js, Flask, Bootstrap

Tools & Databases: PostgreSQL, MySQL, Supabase, MongoDB, Git, GitHub, Figma, VS Code

Projects

Typrtxt: Typing Test SPA | *Vue, TypeScript, Supabase, Tailwind CSS, DaisyUI, Vue Router* Sept - Present

- Engineered a high-performance typing SPA achieving a 42ms INP and 60 FPS rendering by optimizing reactive state and DOM updates for real-time WPM and accuracy tracking
- Developed a mobile-first responsive frontend including a custom keyboard visualizer and dynamic UI components ensuring styling consistency and cross-device compatibility
- Integrated the Epub.js library to parse EPUB files and extract chapters and metadata, populating the Supabase-backed book library

Shiz University | *React, TypeScript, Supabase, Tailwind CSS, Shadcn UI, TanStack Table* Nov - Dec 2025

- Developed a React frontend for a distributed enrollment system with role-based access for students and faculty across multiple gRPC microservices (login, courses, enroll, and view/encode grades)
- Implemented global state management and persistent sessions using Context API, and built login with React Hook Form and Zod for type-safe form validation and clear client-side feedback
- Built interactive data tables using TanStack Table with dynamic filtering, pagination, and column visibility controls for viewing and encoding student grades

What Haffen Fella?: Emotion Detection in Journal Entries with Meme-based Feedback in Filipino

Flask, Python, HTML, CSS, JavaScript

July - Sept 2025

- Collaborated on a Flask-based web app that analyzes user-written journal entries using an emotion detection model and responds with Filipino meme-based feedback to provide comfort and relatability
- Engineered a responsive frontend for dashboard and journaling pages, achieving a "Best Imaginable" 91.25 System Usability Scale (SUS) score
- Co-authored a research paper on the platform's development and emotional feedback engine, which was accepted for the 2025 IEEE Conference on Future Machine Learning and Data Science

Barangay Parang

May - Nov 2024

HTML, CSS, JavaScript, Figma, Bootstrap, Handlebars, MongoDB, Express

- Contributed to a full-stack web application that automated certificate generation and case management for barangay operations
- Led a frontend team of 6 through the end-to-end development lifecycle, from designing high-fidelity Figma prototypes to production deployment
- Collaborated in Agile sprints with bi-weekly deliverables, implementing responsive interfaces using Bootstrap and Handlebars templating

Certifications

CS50x: Introduction to Computer Science

Dec 2025

Harvard University

Professional Experience

Independent Contractor (Video Editing)

May 2023 - Dec 2025

- Delivered 460+ projects for a diverse, international client base, maintaining a 99% on-time delivery rate while adapting to complex requirements and technical challenges