

Jan Jomari Cubelo

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OBJECTIVE

Motivated Computer Science student seeking an On-The-Job Training (OJT) position to leverage a strong foundation in full-stack web and cross-platform mobile development. Passionate about designing intuitive user interfaces and eager to expand my software engineering capabilities by delivering impactful solutions in a professional environment.

EDUCATION

North Eastern Mindanao State University (NEMSU) Tandag City, Surigao del Sur
Bachelor of Science in Computer Science January 2022 - Present
Expected Graduation: June 2027

TECHNICAL AND PROFESSIONAL SKILLS

Machine Learning & AI: Retrieval-Augmented Generation (RAG), Large Language Model (LLM) Integration.
Languages & Frameworks: Python, TypeScript, React, Next.js, Tailwind CSS, Flutter, Dart.
Backend & Cloud: Node.js, Express, PostgreSQL, SQL, AWS Lightsail, Vercel, Hugging Face Spaces.
Concepts & Tools: Full-Stack & Cross-Platform Development, CI/CD Pipeline Automation, UI/UX, Git/GitHub.
Productivity & Collaboration: Google Workspace (Docs, Sheets, Drive, Forms), Microsoft Office, Zoom.
Soft Skills: Formal documentation, technical writing, problem-solving, and project coordination.

KEY PROJECTS

E-Bentobox: Campus Dining Reservation Platform

Tech Stack: *Flutter, Node.js, Express, PostgreSQL, Linux VPS, Socket.IO*

- **Developed a mobile application** to streamline campus dining, allowing students to schedule next-day meals and enabling local vendors to accurately forecast daily demand.
- **Architected a RESTful backend** using Node.js and PostgreSQL, hosted on an AWS Lightsail VPS, to securely manage user authentication, image uploads, and transactional order data.
- **Engineered a secure QR-code fulfillment loop**, equipping vendors with dynamic PDF sticker generation and native camera scanning to seamlessly bind digital orders to physical bento boxes.
- **Integrated OpenStreetMap** for interactive vendor localization and implemented WebSockets (Socket.IO) to deliver real-time push notifications for order status updates.

SmartLib: AI-Powered Smart Library Management System

Tech Stack: *TypeScript, Next.js, Python, FastAPI, PostgreSQL, Groq AI (Llama 3), Linux VPS*

- **Developed a full-stack Progressive Web App (PWA)** to digitize and modernize academic library operations, seamlessly bridging physical inventory management with an interactive digital dashboard.
- **Engineered a high-performance RESTful API backend** using Python (FastAPI) and PostgreSQL, securely deployed on a Linux VPS via a Nginx reverse proxy with JWT-based authentication.
- **Integrated native mobile QR code scanning** to create a rapid "scan-to-add" workflow for librarians (with AI-generated metadata autofill) and a frictionless, 1-click book checkout process for borrowers.
- **Implemented a context-aware AI chatbot** leveraging the Groq API and Llama 3, dynamically feeding real-time database inventory to the model to provide users with highly accurate, hallucination-free book recommendations.

Hearing Wellness Test: AI-Powered Survey Webapp

Tech Stack: *Next.js, React, Prisma, PostgreSQL (Supabase), Python, Google Gemini API, Support Vector Machine (SVM), Recharts, Vercel*

- **Architected a full-stack web application** using Next.js and Prisma, managing a PostgreSQL database on Supabase to securely process and store user hearing wellness surveys.
- **Engineered a context-aware AI chatbot** using the Google Gemini API to analyze individual survey inputs and model predictions, delivering real-time, personalized hearing health advice.
- **Trained and deployed machine learning models** (Support Vector Machines & Random Forest) to evaluate survey datasets, accurately classifying users into distinct hearing risk categories.
- **Built a secure researcher dashboard** featuring live data visualization via Recharts, allowing administrators to track risk distributions, view demographics, and refine survey parameters through a custom editor.

Languages

English: **Fluent** / Cebuano: **Native** / Filipino: **Conversational**