Jan Ryan M. Ballasio
Tuding, Itogon, Benguet 2604 • jryan6278@gmail.com • +63 976 661 5132
https://github.com/JanBallasio • https://www.linkedin.com/in/vanquish02052003/
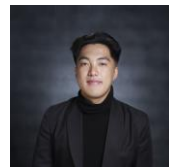
Education
University of Baguio
Information and Communication Technology

University of Baguio
Bachelor of Science in Computer Science

Relevant Projects

University
Real Estate Web Platform using Supabase and Next.js
Tech stack: Next.js, Tailwind CSS and Supabase
- Created a web application that helps workers and university students find a suitable apartment, condominium and dormitory.
- Focused on UI/UX development and backend integrations to ensure user-friendly workflows.

Dental Clinic Appointment Booking System
Tech stack: SERN (MySQL, Express.js, React.js, and Node.js)
- Created CRUD functionalities for appointment scheduling and schedule management.
- Worked on the UI design using Tailwind CSS and React.js.
- Utilized React.js to retrieve and display data from a MySQL database.

Assignment To-do List Mobile Application
Tech stack: React Native, Expo and Firebase
- Created a mobile application that allows users manage their assignments.
- Added a function to notify the user when an assignment is approaching its due date or is overdue.

Traffic Monitoring System for Baguio City
Tech stack: PHP, Laravel, JS, Vue, MySQL, MapBox, WebSockets
***Smart City Command Center** | On-the-Job Training (OJT)*
- Engineered a **real-time traffic monitoring system** with dual interfaces:
  - **Public dashboard**: Live traffic visualization of key roads with color-coded status indicators
  - **Admin page**: Instant CRUD operations (add/edit/soft-delete roads) with changes propagating in real-time to all users
- Implemented **real-time features**:
  - WebSocket integration for live traffic updates without page refresh
  - Synchronized MapBox displays showing current congestion levels
- Developed **role-based real-time routing**:
  - Automatic redirect from landing page to admin portal on login
  - Live permission verification for all data modifications
- Optimized data pipeline:
  - Reduced traffic data latency through WebSocket implementation
  - Soft-delete functionality with real-time UI updates
- Enhanced UX with:
  - Interactive sidebar with live road status indicators
  - Instant map style toggling
  - Real-time search filtering for roads/intersections

Personal
Manage a Grocery Store
- Designed and created a LAN network to connect multiple devices.
- Enhanced customer interaction and workflow efficiency through digital tools and real-time communication.

Skills

Communication: Written and Verbal Communication, Verbal Communication Skills
Critical Thinking: Problem-Solving
Programming & IT: Object-Oriented Programming (OOP), Basic Programming, Computer Science, Information Technology, MIS
Frontend: React.js, Tailwind CSS
Backend: PHP, Node.js
Database: MySql, Firebase, Supabase
Tools: VSCode, XAMPP, Figma, ChatGPT