

# IAN ANGELO M. SIMBULAN

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## PROFILE SUMMARY

Computer Science graduate with a strong foundation in software engineering and hands-on experience in full-stack development, ERP systems, and backend frameworks. Proficient in building scalable business applications using Odoo, Spring Boot, React.js, and Flask, with expertise in database management, API integration, and real-time systems. Known for quickly adapting to new technologies, solving practical problems through code, and contributing effectively in agile, collaborative teams. Eager to deliver impactful solutions and continuously grow as a developer.

## PROFESSIONAL EXPERIENCE

### Full Stack Developer

Achieve Without Borders Inc.

2024 - Present

Makati, PH

- Led full-cycle development of integrated business applications using the Odoo framework, from technical planning to deployment in an agile, collaborative environment.
- Spearheaded the design and implementation of a comprehensive real estate management system, including dynamic property listings, client records, and transaction tracking, enhancing operational workflows.
- Contributed to the development and optimization of custom modules for sales, manufacturing, and product management within Odoo, improving business process efficiency and system scalability.
- Owned and enhanced core components of an enterprise Human Resource Information System (HRIS), resolving critical bugs, improving system performance, and delivering new features to boost user experience.
- Developed custom portal views within the HRIS to improve user accessibility and usability, aligning with organizational requirements and user needs.
- Quickly adapted to and mastered the Odoo framework, applying it to deliver tailored business solutions with measurable impact.
- Completed the Google Workspace End User Learning Path in December 2024, demonstrating commitment to continuous learning and productivity improvement.

### Freelance Full Stack Developer

2023 - Present

PH

- Developed a web-based HR management system for ATHS using PHP, JavaScript, and phpMyAdmin, streamlining employee management with features like attendance tracking and leave management.
- Designed and built a personal portfolio website using React, showcasing web development skills with a responsive and interactive design.
- Created a web-based inventory management system for ATHS, automating item tracking and approval processes with multi-level user access and email notifications.
- Developed a Java-based QR-enabled tool management system, integrating real-time inventory tracking with MySQL and Java Swing, providing a seamless user interface for tool monitoring.
- Built a real-time sentiment analysis platform for Twitch streamers using React.js, Flask, and MongoDB, integrating Gemini AI to provide insights and summaries of chat messages for streamers to better understand viewer sentiment.

## PROJECT WORK

### Custom ERP Solutions: BIR-CAS Compliant Sales and Manufacturing Modules

- Customized Odoo Sales and Manufacturing modules to comply with BIR-CAS regulations, ensuring accurate and audit-ready records for tax and regulatory reporting.
- Streamlined order processing and inventory workflows by automating key operations within the ERP system.
- Implemented custom features for tracking work orders, material requirements, and stock levels to support real-time inventory visibility.
- Optimized production scheduling and resource allocation, reducing manual work and improving delivery timelines.
- Enhanced overall operational efficiency by integrating tailored solutions into the existing ERP infrastructure.

### Unherd the Human Herd (UHH) - Human Resource Information System

- Contributed to the development and enhancement of UHH, a locally built HRIS tailored for Filipino companies, using the Odoo framework.
- Designed and implemented custom portal views to improve user accessibility and streamline key HR workflows.
- Diagnosed and resolved critical bugs across multiple modules, ensuring reliable performance in recruitment, timekeeping, payroll, and performance management.
- Enhanced overall system usability and functionality, supporting smoother HR operations and better user experience.

## **Real-Time Chat Sentiment Analysis for Twitch Streamers**

- Engineered a full-stack web application using React.js, Flask, and MongoDB to provide Twitch streamers with real-time sentiment analysis based on live chat messages.
- Integrated Gemini AI to analyze viewer interactions and generate concise, actionable sentiment summaries, helping streamers better understand audience engagement.
- Designed and implemented interactive data visualizations (graphs and summaries) to display sentiment trends in a user-friendly dashboard.
- Developed secure user authentication and admin panel features to manage access and ensure data privacy for streamers.
- Delivered a scalable tool that enhances live content strategy through AI-powered insights and real-time audience feedback.

## **QR-Enabled Tool Management System**

- Designed and developed a Java-based desktop application for real-time tool tracking, leveraging QR code scanning to automate inventory management and improve accuracy.
- Integrated a MySQL database to securely store and manage tool records, enabling reliable data access and efficient update handling.
- Implemented multithreading to support concurrent scanning and database operations, ensuring seamless performance and responsive user experience.
- Built a user-friendly interface with Java Swing, featuring custom table actions and real-time status updates to streamline tool monitoring and reduce manual overhead.
- Improved operational efficiency by minimizing tracking errors and enabling faster, data-driven tool management across departments.

## **ATHS Inventory Management System**

- Built a full-featured web-based inventory system using PHP, JavaScript, HTML/CSS, and phpMyAdmin, automating item tracking and request workflows for school operations.
- Designed and implemented a role-based access system with multi-level permissions to ensure secure, structured user management.
- Streamlined inventory approvals with automated workflows and email notifications, eliminating manual paperwork and accelerating processing times.
- Developed a responsive, intuitive user interface, enhancing accessibility across devices and improving overall user experience.
- Improved operational efficiency and inventory accountability by reducing manual errors and standardizing request handling.

## **Personal Portfolio / Website**

- Designed and developed a responsive portfolio website using React, showcasing projects, technical skills, and professional background in a clean, interactive layout.
- Applied modern CSS and JavaScript practices to create an engaging user interface optimized for both desktop and mobile devices.
- Organized content into intuitive sections for project highlights, skillset, and contact details, enabling smooth navigation and clear presentation of expertise.
- Demonstrates full-stack web development proficiency and serves as a live representation of technical and design capabilities.

## **IntelliWatch**

- Engineered a real-time fall detection solution using Python, leveraging YOLOv8 for human keypoint tracking and a custom CNN model to identify abnormal movements indicative of falls.
- Integrated Twilio API to deliver instant SMS and email alerts with incident snapshots and contextual injury analysis, ensuring rapid emergency response.
- Deployed the system using CCTV and webcam feeds, enabling 24/7 monitoring for elderly care environments and significantly improving safety and response times.
- Delivered a practical, AI-powered solution aimed at enhancing proactive care and minimizing risks in vulnerable populations.

## **ATHS Human Resource Management System**

- Built a web-based HR system using PHP, JavaScript, HTML/CSS, and phpMyAdmin, automating key functions like attendance tracking, leave management, and employee record updates.
  - Streamlined HR operations by automating leave balance calculations and minimizing manual data entry, increasing accuracy and administrative efficiency.
  - Developed a role-based access control system to ensure secure, structured, and scalable management of employee data and system functionalities.
  - Enhanced user experience through a responsive, intuitive interface, enabling easy access and navigation across devices.
  - Contributed to a more efficient and organized HR workflow by centralizing records and digitizing approval processes.
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## TECHNICAL SKILLS

- Programming Languages: C++, Java, Python, JavaScript
  - Web & Backend Development: Spring Boot, Flask, PHP, Odoo, RESTful APIs
  - Frontend & UI Development: HTML, CSS, React.js
  - Database Management: SQL, MySQL, phpMyAdmin, PostgreSQL, MongoDB
  - Mobile Programming: Android Studio (Java)
  - Networking and Communication: Cisco
  - Tools & Technologies: Git, Docker, GitHub, GitLab
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## CERTIFICATIONS

- Civil Service Eligibility - Professional
  - Devnet Associate
  - CCNA: Introduction to Networks
  - IT Specialist – Python
  - IT Specialist – Java
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## EDUCATION

### FEU Institute of Technology

**2021 - 2025**

BS Computer Science with Specialization in Software Engineering

Manila, PH

- President's Scholar - [2021-2025]
- Project manager and backend developer of IntelliWatch A Fall Detection System Using Computer Vision
  - Best Thesis and Most Innovative
  - Best Audio Visual Presentation
  - Best Poster
- FEU Tech Association for Computing Machinery (ACM) Marketing Junior Officer
- FEU Tech Association for Computing Machinery (ACM) Member
- FEU Tech Junior Philippine Computer Society (JPCS) Member
- Dean's Lister
- Top Performing Student in Software Engineering

### Assumpta Technical High School

**2015 - 2021**

Science, Technology, Engineering, and Mathematics (STEM)

Pampanga, PH

- With High Honors Awardee