VIN TRISTAN E. BALAJADIA

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EDUCATION

BS IN COMPUTER SCIENCE WITH SPECIALIZATION IN SOFTWARE ENGINEERING **August 2023 - Present**
Far Eastern University Institute of Technology - College of Computer Studies and Multimedia Arts

- *Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Software Engineering I & II, Programming Languages, Parallel & Distributed Computing*

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS **2021 -2023**
Wesleyan University - Philippines

- Award: With Honors

ORGANIZATIONS

ASSOCIATION FOR COMPUTING MACHINERY **September 2025 - June 2026**
Junior Officer - Logistics Committee

- Supported student events by coordinating materials and refreshments, assisting with ushering and crowd management, and ensuring smooth event operations.

SKILLS

- **Spoken Languages:** English, Filipino
- **Programming Languages:** C++, Java, Python, JavaScript
- **Software Development:** Object-Oriented Programming, Data Structures and Algorithms, GUI Development
- **Web Development:** HTML, CSS, React, Tailwind CSS, PHP, Laravel
- **Databases & Tools:** MySQL, Supabase, Git, GitHub, VS Code
- **AI & Edge Computing:** MobileNet, OpenACC, CUDA, Raspberry Pi
- **Soft Skills:** Problem Solving, Critical Thinking, Team Collaboration, Time Management

CERTIFICATIONS

- **IT Specialist – Python**
  - Demonstrates foundational proficiency in writing, debugging, and problem-solving using Python.
- **PMI Project Management Ready™**
  - Demonstrates foundational knowledge of project management, business analysis, and Agile methodologies.

PROJECTS

- **APo: Real-Time Elderly Activity Monitoring | Machine Learning Engineer**
  Technologies: Python, TensorFlow, OpenCV, MediaPipe, MobileNet, Raspberry Pi
  - Developed and optimized a motion pre-filtering and MobileNet-based activity recognition pipeline, achieving 98.83% accuracy, 25.25 ms mean latency, and reducing average CPU usage from 79.41% to 71.39%.
- **TAKO: AI-Powered Gamified Study Companion | Database Administrator**
  Technologies: Godot, React.js, Supabase | 2nd Runner-Up, ACM Asteria Hackathon - FEU Tech
  - Managed the Supabase data layer for a bilingual, low-bandwidth, RPG-based study companion that provides Filipino learners with personalized explanations and adaptive practice exercises.
- **Harap: AI Interview Coaching Platform | Full-Stack Developer**
  Technologies: React 19, TypeScript, Node.js, Express 5, PostgreSQL, Supabase, OpenAI API
  - Developed a full-stack platform that delivers realistic mock interviews, personalized AI feedback, and progress tracking for aspiring software engineers.
  - Built a type-safe monorepo with Turborepo, TanStack Query, Zod, Vitest, pnpm, and GitHub Actions for state management, validation, testing, and continuous integration.