FRANCIS MARK BAGUION

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EDUCATION

Bachelor of Science in Computer Science
Visayas State University, Baybay City, Leyte *July 2026*

- Cum Laude Candidate; Highest GPA: 1.269 (2nd Sem, AY 2025–2026); Cumulative GPA: 1.651
- Thesis: VINCE: An AI-Powered Virtual Information Navigator and Campus Expert for Visayas State University Student Services
- LGU Scholar of Ormoc

EXPERIENCE

Software Engineering Intern *June 2025 – July 2025*
AI4GOV, Makati, Metro Manila

- Built a PESO (Public Employment Service Office) chatbot and other AI-powered prototypes for public-sector use cases.
- Mitigated development delays by proactively resolving communication gaps and realigning team priorities to ensure continuous workflow progression.
- Built and deployed scalable web applications using modern frameworks, enforcing strict version control best practices to maintain a robust codebase.

SELECTED PROJECTS

VINCE Chatbot: Virtual Information Navigator and Campus Expert *Jan 2026 – Jun 2026*
Full-Stack Developer

- Designed and shipped an AI campus assistant used by VSU students, achieving 98.7% intent accuracy and ~2s median response time over a 445-entry knowledge base, built on a custom RAG pipeline (pgvector + self-hosted Qwen 8B via Ollama).
- Architected a full Supabase backend (Postgres, pgvector, Auth, RLS) with an abstracted inference layer and self-hosted Ollama stack on Cloudflare Tunnel, plus automatic lexical fallback for high availability.
- Built a responsive Next.js/TypeScript interface with an interactive Leaflet campus map (100+ locations) and Supabase-backed forum, deployed on Vercel.

AYAN: PESO AI Career Assistance Chatbot (AI4Gov Internship) *May 2025 – Jul 2025*
AI Solutions Intern

- Designed the AI architecture and implementation roadmap for a government chatbot supporting employment, training, and Public Employment Service Office (PESO) inquiries.
- Curated and structured the chatbot knowledge base by organizing intents, conversation flows, and response content to improve information retrieval and user experience.
- Conducted user research, solution benchmarking, and stakeholder presentations to validate requirements and guide the chatbot's iterative design and future AI capabilities

VSU Botanical Plant Locator *Oct 2024 – Dec 2024*
Project Lead

- Led a team to build a web-based plant identification and discovery tool using geomapping to locate 100+ botanical species across the VSU campus, supporting student wellness and ecological awareness.
- Directed development in Vue.js (Nuxt) with a Firebase backend, geomapping to pinpoint specific botanical species across campus.

LEADERSHIP & INVOLVEMENT

CS3 Mentor for Dormers (Major Subjects) *Aug 2023 – May 2026*
Department of Computer Science and Technology, VSU

- Mentored Computer Science students residing in the university dormitory, providing academic support in major computer science subjects.

- Guided students in coursework, problem-solving, and programming concepts to help improve their academic performance.

CET SSC – Media Committee Member *Jul 2022 – Aug 2022*
College of Engineering- Supreme Student Council (CET-SSC)

- Designed publication materials (pubmats) and event guides to promote and support council activities across the college.

Finance Committee Officer - VSU Dormitory *Aug 2025 – Apr 2026*
Visayas State University Dormitory

- Managed and tracked dormitory funds, budgeting for events and maintaining financial records using a dedicated tracking system.

HONORS & ACHIEVEMENTS

- 1st Runner-Up, CS Week Hackathon 2025 - Led a team to design and build a functional C# desktop application within an 8-hour time limit
- College Honor, College of Engineering and Technology, VSU (2025)
- Dean's Honor, VSU (2026)

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, JavaScript, Dart, SQL, R
Frameworks & Libraries: Spring Boot, Nuxt.js, Next.js, React, Flutter, .NET, Tailwind CSS
Cloud & Backend: PostgreSQL (pgvector), Supabase, Firebase, Cloudflare (Tunnel, Access)
AI & ML: NLP, Intent Classification, LLMs, RAG, Dialogflow ES; ChatGPT, Claude, GitHub Copilot
Tools & Platforms: Git, Ollama, Linux/Ubuntu CLI, PowerShell, Figma
Methodologies: Agile/Scrum, OOP, SDLC, MVC, RESTful API Design, CI/CD Fundamentals

CERTIFICATIONS

- Data Analytics Essentials - Cisco
- Introduction to Data Science - Cisco
- Python Essentials I & II - Cisco