

GIANNE P. BACAY

AI Engineer | Full-Stack Developer

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AI and software developer proficient in Python, Tensorflow, Keras, React, Next.js, Node.js, PostgreSQL, and Tailwind CSS. Passionate about building intelligent, efficient, and scalable applications. Experienced in developing solutions for AI research, web platforms, and business technology management projects.

WORK EXPERIENCE

Full-Stack Developer Intern | Department of Trade and Industry – Region XI | July 2025 - December 2025

- Developed and maintained internal web-based systems supporting trade, industry, and administrative operations.
- Securely deployed the system on the DTI Region XI NAS server with role-based access for authorized administrators and encoders.
- Used AI-assisted development and performance optimization to improve code quality, reliability, and deployment efficiency.

Freelance AI Engineer & Full-stack Developer | SudoTechPlus | August 2025 - Present

- Co-founded a B2B SaaS startup and led AI and full-stack system architecture, focusing on scalable, production-ready AI solutions.
- Built and deployed AI features including RAG pipelines, LLM-powered services, and backend APIs using Node.js or Python, vector databases, and modern web frameworks.
- Delivered end-to-end products from research and prototyping to cloud deployment, improving development velocity and reducing iteration time through AI-assisted workflows.

TECHNICAL SKILLS

Programming and Scripting Languages: Python, HTML, CSS, JavaScript, TypeScript, PHP, Java, C++, R

Frameworks and Tools: Laravel, React, Django, Flask, Node.js, Next.js, Tailwind CSS, Shadcn UI, Magic UI, Lightswind UI, MapLibre GL, Mapcn, Google ADK, Vercel AI SDK, Web3Forms, Netbeans, Arduino IDE

Database Management Systems: PostgreSQL, Supabase, MySQL, NoSQL

AI Tools: ChatGPT, Claude, Gemini, Cursor, Deepseek, Qwen, Grok, Firebase Studio AI, Antigravity

AI Frameworks and Libraries: TensorFlow, Keras, OpenCV, Numpy, Pandas Hugging Face, MediaPipe, Firebase Genkit, Vertex AI, Ollama, WebLLM

FEATURED PROJECTS

GPBacay's Portfolio (Personal Portfolio Website with AI Agent) | <https://www.gpbacay.xyz>

Application Systems Development Project | May 2024 - Present

- Built a responsive portfolio site with an AI chatbot using Next.js, React, Node.js, Tailwind CSS, Shadcn UI, JavaScript, and TypeScript, with Firebase Genkit and Google Gemini API for AI integration and deployed via Vercel.

DTI Property Management System (Department of Trade and Industry Philippines Region XI – Finance Administrative Division) | DTI NAS Server

IT Practicum (OJT) | July 2025 – December 2025

- Developed a web-based Property Management System automating PPE and SEP lifecycle tracking, classification, tagging, and report generation in compliance with COA standards. Built with Next.js, React, Node.js, PostgreSQL, Supabase, Tailwind CSS, and Shadcn UI, and deployed on a secure DTI NAS intranet environment.

A.R.C.A.N.E. - Neuromimetic Neural Network SDK | <https://pypi.org/project/gpbacay-arcane/>

Personal Project | December 2024 - Present

- Developed a Python library for biologically-inspired neural networks with mechanisms such as spiking neurons, Hebbian learning, Bi-Directional Alignment Mechanism for Deliberative Neural Reasoning, and more, enabling advanced AI and computational neuroscience research using Python, NumPy, TensorFlow, and Keras.

CERTIFICATIONS

Civil Service Exam - Pen & Paper Test Professional Level (CSE-PPT-Prof) | 2023

- Passed the Philippines's Civil Service Exam - Pen & Paper Test Professional Level (CSE-PPT-Prof) on first attempt, August 20, 2023

1st Place - AI Hackathon CHAMPION (Pearson Enterprise Learning & Skills - Asia Pacific) | 2025

- Gained from winning AI Frontiers and ICT Davao's AI Hackathon 2025 MSME Edition, recognized for the highest overall evaluation in industry, business, and technology.

EDUCATION

University of Southeastern Philippines | 2022 - 2026

Bachelor of Science in Information Technology - Major in Business Technology Management

EXTRACURRICULARS

Executive Secretary (Operations Committee) - University of Southeastern Philippines Developer Student Community (USEP - DSC) | 2024 - 2025