

Genesis Dumallay

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SKILLS

Languages: Python, C++, JavaScript/TypeScript

Cloud & DevOps: Amazon Web Services (AWS – Lambda, S3, Bedrock, CloudFront), Git, CI/CD

Backend & Database: Node.js, Express.js, MongoDB

Frontend: React.js, Next.js

Testing: Vitest, Playwright

EXPERIENCE

Software Engineer Intern

GlobalTek BPO Inc. (Traector - Philippine Engineering Team)

April 2025 – December 2025

Makati, NCR

- Improved web application performance by **41%** by executing strategic code refactoring, increasing speed and maintainability
- Engineered an agentic RAG system indexing a **140+** page company handbook using Strands Agents, streamlining policy retrieval via natural language. Reduced fixed AI costs by **99%** (**\$300+**/month to **<\$1**) by converting vector store to a purely on-demand usage model.
- Improved CI/CD workflow and prevent production regressions through automated tests using Vitest and Playwright
- Maximized applicant pool utilization for Talent Acquisition through a serverless automated AI applicant recommender pipeline that automates daily matching applicants to alternative job openings.

PROJECTS

VA Claims Smart Calculator | AWS (S3, Bedrock, AgentCore via Strands Agents SDK), Python

Traector Hackathon Entry

- Developed a viable proof-of-concept for reducing Veteran Affairs (VA) claims case processing times through an Agentic-based workflow, automating the analysis of clinical medical evidence to identify likely successful claims, and determine their potential increase value and required supporting documents.

GatherInManila | Python, Flask, Firebase Database

A Machine Learning Powered Event Recommendation Mobile App

- Directed a development team through the full Software Development Life Cycle (SDLC), overseeing architecture planning and algorithm design to ensure successful product delivery.
- Designed and built a content-based recommendation system that achieved an **80%** F1-score in predicting user preferences.

EDUCATION

Bachelor of Science in Computer Science, FEU Institute of Technology

December 2025

Extracurricular: Association for Computing Machinery (ACM), Junior Officer of Logistics Committee

2022 – 2024

CERTIFICATIONS

Information Technology Specialist in Python

2023

Cisco Networking Academy: DevNet Associate

2024