

Genesis Dumallay

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Skills

Languages: Python, C++, JavaScript/TypeScript

Development Tools/Frameworks: Node.js, React.js, Next.js, Vitest, Playwright

Database: MongoDB

Cloud and Infrastructure: Amazon Web Services (AWS), Git, CI/CD

Specialization: Backend Web and Agentic Development

Experience

Software Engineer Intern

GlobalTek BPO Inc. (Trajector - Philippine Engineering Team)

April 2025 – December 2025

Makati, NCR

- Improved web application performance by **31%** by executing strategic code refactoring to increase speed and maintainability
- Engineered an internal Agentic Retrieval-Augmented-Generation (RAG) system indexing a **140+** page company handbook, streamlining policy information retrieval for employees via natural language.
- Improved CI/CD workflow and prevent production regressions through automated tests using Vitest and Playwright
- Maximized talent pool utilization by building a serverless applicant AI-recommender pipeline that automates daily matching applicants to alternative job openings.

Projects

VA Claims Probability Calculator | AWS (S3, Bedrock, AgentCore via Strands Agents SDK), TypeScript, Python, Node Trajector Hackathon Entry

- Created a POC for a Veteran Affairs (VA) medical claims evaluation system to ingest clinical evidence and predict medical claim success probability.
- Developed a viable proof-of-concept for reducing manual case review times in claims processing through an Agent-based workflow that automates the analysis of unstructured medical data

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
- Cisco Networking Academy: DevNet Associate

2023

2024