

Genesis Dumallay

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Skills

Languages: Python, C++, JavaScript/TypeScript
Cloud & DevOps: Amazon Web Services (AWS), 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. (Trajector - Philippine Engineering Team)	April 2025 – December 2025 Makati, NCR
<ul style="list-style-type: none">Improved web application performance by 31% by executing strategic code refactoring, increasing speed and maintainabilityEngineered 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 PlaywrightMaximized 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 Probability Calculator | AWS (S3, Bedrock, AgentCore via Strands Agents SDK), Typescript, Python, Node Trajector Hackathon Entry

- Demonstrated the technical feasibility 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 2023
- Cisco Networking Academy: DevNet Associate 2024