

# Genesis Dumallay

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## Skills

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**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

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### Software Engineer Intern

April 2025 – December 2025

GlobalTek BPO Inc. (Trajector - Philippine Engineering Team)

*Makati, NCR*

- Improved web application performance by **31%** 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

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**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 Agentic-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

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**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

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- Information Technology Specialist in Python 2023
- Cisco Networking Academy: DevNet Associate 2024