Genesis Dumallay

gmdumallay@gmail.com | +639777364652 | LinkedIn | GitHub | website | Quezon City, NCR

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   April 2025 – December 2025
GlobalTek BPO Inc. (Trajector - Philippine Engineering Team)   *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 for Talent Acquisition 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

- 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