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 — 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 and reducing fixed AI costs by **99%** (**$300+**/month to $< \$1$) by switching to an on-demand vector store model.
- Improved CI/CD workflow and prevented production regressions through automated tests using Vitest and Playwright.
- Deployed REST and WebSocket API routes via AWS **API Gateway**, secured via token-based authentication to ensure authorized access.
- Maximized applicant pool utilization for Talent Acquisition using Bedrock with an AI applicant recommender pipeline, utilizing **EventBridge** to schedule daily matching of applicants to alternative job openings.

PROJECTS

VA Claims Smart Calculator (Trajector Hackathon Entry)
Tech Stack: AWS (S3, Bedrock, AgentCore via Strands Agents SDK), Python

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

GatherInManila – *A Machine Learning Powered Event Recommendation Mobile App*
Tech Stack: Python, Flask, Firebase Database

- 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 uses KNN and Cosine Similarity in predicting user preferences.

EDUCATION

Bachelor of Science in Computer Science — December 2025
FEU Institute of Technology

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

CERTIFICATIONS

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