

Charles John R. Cabatian

Notion Campus Leader | Data Modeling Intern | Machine Learning Engineering Intern

Marikina City - 1801 | 09655832993 | cjcabatian5@gmail.com

PROFESSIONAL SUMMARY

Computer Science student specializing in Machine Learning, with hands-on experience across the data pipeline — from data engineering to model deployment. Building applied skills through the AWS AI & ML Scholars Program, Eskwelabs' EIF Data Modeling Track, and a Machine Learning Internship at FlyRank AI, with project work in churn prediction, RAG systems, and anomaly detection using Python, PyTorch, and Scikit-learn. Also brings leadership experience as a Notion Campus Leader and startup co-founder.

WORK & PROJECT EXPERIENCE

Notion Campus Leader – NU Manila
Notion Inc.

August 2025 – Present

- Selected as one of Notion's Campus Leaders at National University – Manila, representing the platform and driving adoption across the student body.
- Planned and co-led 4 workshops and community events on productivity systems and workflow design, reaching 100+ students.
- Built relationships with student orgs and faculty to expand Notion's footprint on campus, translating feedback into more targeted programming.

Machine Learning Engineering Intern
FlyRank AI, Remote

July 2026 – Present

- Selected for FlyRank AI's Machine Learning track, applying ML to real-world search and analytics data for the company's content-intelligence platform.
- Built embedding-based clustering and intent-classification models to segment and score search/content opportunities, using Python, pandas, and scikit-learn.
- Delivered reproducible notebooks translating model output into actionable recommendations, reviewed by senior engineers for data handling and insight quality.

Data Modeling Intern
Eskwelabs – Makati City, Remote

June 2026 – Present

- Selected for Eskwelabs' Innovation Fellowship, Data Modeling track, translating real-world processes into structured assumptions and Python-based simulations.
- Built synthetic datasets and decision-support models replicating real organizational systems (e.g., Store Site Selection), enabling safe experimentation without sensitive data.
- Applied first-principles reasoning and mathematical rigor to validate model assumptions, with outputs reviewed against professional data science standards.

- Selected for the AWS AI & ML Scholars Program (AWS x Udacity), completing the AI Practitioner learning track covering generative AI, NLP, computer vision, and responsible AI.
- Built hands-on projects using Amazon PartyRock and Amazon Bedrock, including a prompt-engineered productivity app and a data-analysis project extracting insights from real datasets.

Nura: Multilingual Healthcare Access Navigator
InnOlympics 2026 – Data Engineer

April 2026

- Architected a full-stack healthcare navigation platform for Filipino users, pairing a FastAPI backend with a React frontend and Supabase for data management.
- Integrated Gemini-powered conversational AI with retrieval-augmented generation to guide users through facility discovery, documentation, and benefits lookup.
- Structured the system with dedicated data, docs, and environment-config layers, reflecting deployment-ready design rather than a prototype notebook.

AI – Powered Lead Qualification Pipeline
Personal Project – AI/ML Engineer

April 2026

- Engineered an autonomous lead-qualification pipeline combining web data extraction, RAG-based vector retrieval, and LLM scoring to rank business leads at scale.
- Designed a modular, service-oriented architecture with environment-driven configuration and operational docs for reproducibility.
- Containerized the system with Docker Compose, enabling portable, multi-service deployment end-to-end.

cpnlookup – Hybrid RAG Code Intelligence CLI
Personal Project – Full-Stack Engineer

June 2026

- Built a local-first Python CLI enabling natural-language queries over GitHub repositories without requiring a local clone.
- Designed a hybrid retrieval pipeline combining vector search with static call-graph analysis to improve code-context relevance.
- Packaged for maintainable distribution via pyproject.toml, optimized for private, local inference using Ollama.

Foundational AI/ML Engineering Projects
Personal Project – Full-Stack Engineer

- *RAG-from-Scratch*: Built an end-to-end Retrieval-Augmented Generation system for context-aware Q&A, separating data, retrieval, and generation into distinct pipeline layers.
- *Transformer-from-Scratch*: Implemented core attention-based Transformer components from first principles to build a working understanding of LLM internals.
- *SLM Supervised Fine-Tuning Study*: Ran a structured fine-tuning study for small language models, investigating whether instruction fine-tuning on SLMs can internalize the prompt repetition effect on structured information extraction tasks.

EDUCATION

National University – Manila
BS Computer Science specializing in Machine Learning

2024 – 2028 (Expected)

- Dean's Lister (1st Year, 1st, 2nd, & 3rd Term, SY 2024 – 2025)
- Dean's Lister (2nd Year, 1st, 2nd, & 3rd Term, SY 2025 – 2026)

FEU High School - Manila
STEM

2022 – 2024

- Graduated with Honors

SKILLS

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- ML & AI: PyTorch, Scikit-learn, NumPy, Transformers, Hugging Face, Jupyter Notebook, Groq API, Google ADK
 - Programming: Python, Java, C, JavaScript/TypeScript, HTML, CSS
 - Frameworks & Tools: React, Next.js, FastAPI, Firebase, Git/GitHub, Docker, Vercel/Render
 - Soft Skills: Technical Pitching, Public Speaking, Team Collaboration, Community Leadership

HACKATHON ACHIEVEMENTS

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- Arduino Day 2025 – Top 8 Finalist
 - Ideathon GDSC NU Manila 2025 – 2nd Runner Up
 - Hackercup 2025 – Competitor
 - Meralco Idol Hackathon 2025 – Top 8 Finalist
 - InnOlympics 2026 – Competitor

CERTIFICATIONS

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- AWS AI & ML Scholars - 2026 Challenge Completion - Udacity
 - Budget AI Part 4: Measuring ROI – Eskwelabs (EIF)