

Paul Christian M. Mandap

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EDUCATION

Technological Institute of the Philippines

Bachelor of Science in Computer Science (Machine Learning), Cum Laude, GWA: 1.52

Manila, PH

June 2026

EXPERIENCE

Stratpoint Technologies

Metro Manila, PH

Data Engineering Intern

Jun 2026 - Aug 2026

- Architected an end-to-end ELT pipeline in Airflow, PySpark and PostgreSQL, transforming raw sources into a 3-layer dimensional star schema of 20 dbt models.
- Cut full-warehouse rebuild to a single idempotent Airflow trigger completing in 1m22s, with byte-identical output verified against the previous run.
- Corrected 12,067 field values across a 45,433-record catalog, growing usable data 105% and exposing a true failure rate of 35.7%, not the 30.0% raw data showed.
- Optimized a core query 27% faster and cut its index 76% smaller through EXPLAIN ANALYZE plan analysis and partial indexing.
- Enforced quality at both layers: 104 dbt tests that fail the pipeline run on reconciliation drift, and GitHub Actions CI running 65 unit tests on every pull request.

Globe Telecom

Manila, PH

Territory Service Quality Assurance Intern

Jan 2026 - Apr 2026

- Consolidated 31 source sheets into 2 governed KPI masters feeding Looker Studio, standardizing 20+ mobile and broadband metric definitions and documenting KPI-to-source lineage.
- Found and fixed a flaw in the report's blend logic, rebuilding it on one consolidated master and the full 2025 dataset to collapse 3 overlapping tables into a single source of truth.

LEADERSHIP & ACTIVITIES

AWS Cloud Club - TIP

Manila, PH

Chief Technology Officer

Aug 2025 - Apr 2026

- Led a serverless web deployment workshop for 50+ students, delivering hands-on AWS training in VPC, security groups, S3, Lambda, and EC2.
- Mentored 30+ officers and members on cloud computing fundamentals across compute, storage, and networking, reinforcing a continuous learning culture.

MACHINE LEARNING & SOFTWARE PROJECTS

- **AI-Powered Volleyball Gesture System (full-stack):** Built a real-time gesture recognition backend (YOLO, MediaPipe, Keras) and integrated it via FastAPI and WebSockets into a Next.js frontend, automating live match scoring with instant multi-user synchronization.
- **NLP Resume Classifier (ML pipeline):** Built an end-to-end unstructured-to-structured pipeline (SpaCy NER, SVM) parsing PDF/DOCX resumes into standardized JSON, automating recruiter workflows across 25 job domains with 80% accuracy and a 0.77 F1-score.
- **Autonomous RC Car Navigation System (thesis):** Engineered a real-time YOLOv8n and ROS2 obstacle-detection pipeline on a Raspberry Pi 5, integrating Kalman filtering and ORB-SLAM3 to achieve 0.1m error at 10 FPS.

LICENSES & CERTIFICATIONS

AWS Certified Cloud Practitioner, Amazon Web Services

May 2025

TECHNICAL SKILLS

Data Engineering: Python (Pandas, PySpark batch processing, NumPy), SQL (PostgreSQL), Apache Airflow, dbt, Docker, Bash, ETL/ELT, data modeling, star schema, data quality testing, data lineage documentation

Machine Learning & AI: scikit-learn, Keras, YOLOv8, OpenCV, MediaPipe, SpaCy

Cloud & Analytics: AWS (S3, EC2, Lambda, VPC, IAM), Power BI (DAX), Looker Studio

Software & Tools: FastAPI, WebSockets, REST APIs, Git/GitHub, VS Code