

# Carryl Ryan Abarquez

Backend & Data Engineer

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## Summary

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Backend & Data Engineer experienced in building ETL pipelines, IoT-to-Cloud systems, and ML-integrated backends. Deployed cloud infrastructure and delivered data engineering solutions within Agile teams. Adapts quickly and thrives in fast-paced, collaborative environments.

## Experiences & Skill

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### Automobile Association of the Philippines

Quezon City, Philippines

Software Engineering Intern

September, 2025 - January, 2026

- Developed 3 core Laravel modules (RBAC handler, resource scheduling, and company-wide events scheduling) for the Information Systems Technology Department serving organization-wide operations
- Engineered a secure RBAC system supporting 3–5 distinct role definitions with fine-grained access control across enterprise data flows
- Implemented automated resource scheduling with conflict-resolution logic, delivered through Agile sprints up to UAT-ready stage

### Recoltes - Smart Urban Farming

Quezon City, Philippines

Lead Backend Engineer

August, 2025 - April, 2026

- Architected ETL data pipelines ingesting 13 sensor streams at 5–30 minute intervals from IoT hardware to cloud infrastructure (DigitalOcean), powering a real-time Digital Twin system
- Trained and evaluated 4 ML models (XGBoost, LightGBM, HistGradientBoosting, Random Forest), selecting the optimal model through cross-validation and performance benchmarking
- Developed FastAPI and Laravel backends managing data preprocessing, feature transformation, and ML inference serving within an Agile team

### Barangay Santa Monica Integrated Management System

Quezon City, Philippines

Backend Engineer

August, 2024 - March, 2025

- Designed a centralized PostgreSQL data model of 30+ tables across 5 government subsystems, with scalable Java/Python backend services digitizing manual workflows
- Integrated RFID attendance hardware and implemented RBAC-based data protection for sensitive citizen records across all subsystems

## Skills

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### Python

FastAPI, Numpy, ETL, Data Pipelines

### Machine Learning

Scikit-Learn, Model Evaluation, XGBoost, LightGBM

### Docker

Containerization, Service Deployment

↻ Cross-functional collaboration

↻ Initiative / ownership

### SQL

Schema Design, Database Modeling, Pipeline Queries

### Big Data Concepts

ETL Design, Data Acquisition, Feature Engineering

### Cloud Infrastructure

AWS, GCP, Digital Ocean

↻ Business-driven thinking

↻ Adaptability to new technologies

## Education

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### Quezon City University

Magna Cum Laude Candidate

Bachelor of Science in Information Technology

August, 2022 - Now