Darius Ardales

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EDUCATION

De La Salle University — Manila, Philippines
Bachelor of Science in Computer Science, — *Aug. 2020 – Aug. 2025*
Major in Software Technology, Minor in Data Science

EXPERIENCE

Data Science and AI Intern — May 2025 – Jul 2025
Bank of the Philippine Islands (BPI) — *Makati, NCR, Philippines*
- Built an audio-to-insights pipeline on GCP and Azure, automating transcription, diarization, and speech analysis
- Converted call recordings into actionable structured data for consumer banking analytics

Freelance AI Writing Evaluator and Trainer — Aug 2024 – Apr 2025
Outlier — *San Francisco, CA, USA*
- Evaluated 80+ AI outputs weekly on diverse projects, consistently earning high-quality feedback ratings
- Ranked Senior Reviewer on some projects and inducted into Oracle, Outlier's top contributors group

Software Engineer Intern — Jun 2024 – Aug 2024
Thinking Machines Data Science, Inc. — *Taguig, NCR, Philippines*
- Led a project from design to presentation, taking full ownership of its development
- Enhanced office space utilization and projected 60% cost reduction with a web app alternative to HotDesk

RESEARCH & PUBLICATIONS

On the Generalization Capabilities of Transformer Models for Seasonal, Sinusoidal Time Series Forecasting — Ongoing
DLSU Dr. Andrew L. Tan Data Science Institute
- Developed a novel attention mechanism that improved generalization on unseen seasonal patterns
- Integrated convolutional modules and enhanced positional encodings to boost model robustness to seasonal shifts

SentiMetry: A Development of Emotional Wellness Web Application Using AI-Driven Sentiment Analysis — Nov 2024
Institute of Electrical and Electronics Engineers
- Combined EmoRoBERTa, Logistic Regression, and Bi-LSTM to predict top-3 emotions across 28 categories
- Generated personalized LLM feedback using Mistral, with 81% of users finding it empathetic

Towards a Memory-Efficient Filipino Sign Language Recognition Model for Low-Resource Devices — May 2024
Computing Society of the Philippines
- Achieved 91% model-size reduction (11.7 MB to 1.0 MB) via post-quantization with only 3.5% accuracy drop
- Outperformed raw-frame CNN (25.5%) and LSTM (31.3%) by using MediaPipe landmarks

PROJECTS

Google Gen AI Intensive Course Capstone: Central Bank Compass AI — Mar 2025 – Apr 2025
- Engineered a multi-agent Agentic RAG system to distill central bank communications into actionable insights

SafetyCNN: a Simple CNN for Safety Classification — Nov 2024 – Dec 2024
- Designed a CNN for classifying construction images as "safe" or "unsafe" using PyTorch and OpenCV

Klima Insights — Mar 2024 – Apr 2024
- Implemented an application illustrating the impacts of global warming in the Philippines using GeoPandas

CERTIFICATES & AWARDS

Maya Big 3 Startup Showdown Winner — Apr 2025
DataCamp: Python Data Associate — Sep 2024
Harvard Online: CS50's Introduction to Artificial Intelligence with Python — Jun 2024
DataCamp: Data Analyst with Python — Dec 2023

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript
Frameworks & Libraries: PyTorch, scikit-learn, XGBoost, TensorFlow, Keras, LightGBM, OpenCV, LangChain
Model Providers: Google Gemini, Hugging Face Transformers, OpenAI API, Mistral API
ML Ops: GCP, GitHub, Git, Vercel, W&B, Docker, Next.js, FastAPI
Data Analytics: Pandas, NumPy, Matplotlib
Databases: PostgreSQL, ChromaDB