CHRISTIAN AARON P. CANILLAS, REE

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Education

University of the Philippines Los Baños (UPLB) 2019 – 2024
Bachelor of Science in Electrical Engineering, Major in Computer Engineering
Magna Cum Laude (GWA: 1.366/1.00)
DOST-SEI Scholar
Organizations: UP Engineering Radio Guild Los Baños, Institute of Integrated Electrical Engineers - UPLB Student Chapter

Certifications and Licenses

PRC Registered Electrical Engineer – October 2024
AWS Certified AI Practitioner – October 2024
AWS Certified Cloud Practitioner – June 2025

Work Experience

Accenture
Data Engineering, Management, and Governance Analyst July 2025 – Present

- Designed and automated ETL pipelines for Finance & Accounting (F&A) reporting modules, improving data reliability and reducing manual intervention
- Developed time-series forecasting models to predict monthly BOI and PSP transaction volumes, enabling capacity planning and process optimization
- Built interactive dashboards using Power BI to monitor key metrics and trends, providing stakeholders with actionable insights for performance tracking

Sun Life Global Solutions
Graduate Associate/Technical Assistant (Software Engineer) Nov 2024 – June 2025

- Served as the primary developer of a Retrieval Augmented Generation (RAG) system powering an internal AI chatbot for financial advisors
- Developed, tested, and implemented the complete event-driven backend pipeline for document ingestion, chat processing, and conversational memory
- Developed proof-of-concepts (PoCs) for AI-powered call evaluation, AI call simulation, and multi-agent AI orchestration systems
- Built a dashboard to track AI tool adoption across multiple regional teams, providing insights on training completion, access distribution, and usage
- Maintained and enhanced legacy intent-based chatbots to improve user experience and conversational accuracy

Projects

Image Classification of Steel Defects using Lightweight Convolutional Neural Networks (Undergraduate Thesis)
Tech Stack: Python, Jupyter Notebook, TensorFlow, Keras, NumPy, Matplotlib

- Applied deep learning models by adapting MobileNetV1, EfficientNetB0, and VGG-16 architectures to classify images of steel surfaces defects, enhancing accuracy and efficiency
- Fine-tuned the models' learning rate hyperparameter to optimize convergence and improve overall model performance
- Applied 8-bit and 16-bit quantization to compress the model sizes of up to 4.69 times smaller, reducing computational resources while maintaining minimal performance loss

Luminos: Energy Data Platform (Personal Project)
Tech Stack: dbt, Airflow, Python, MotherDuck (DuckDB)

- Engineered an end-to-end solar energy analytics pipeline using Apache Airflow, dbt, and DuckDB to automate daily ingestion of solar energy and weather data from APIs, enabling performance monitoring
- Implemented medallion architecture data transformation layer using dbt (staging → marts → reports) producting multi-grain aggregations (hourly, daily, monthly) with automated data quality validation and testing

Skills

Programming Languages: Python, Visual Basic, MATLAB, SQL, VHDL, JavaScript, Node.js

Data Analytics: pandas, NumPy, Power BI, MS Excel, SQL, Data Modeling

AI & ML: Computer Vision, Retrieval Augmented Generation (RAG), Neural Networks, LLMs, TensorFlow, LangChain, scikit-learn

Development Tools: Amazon Web Services, Git, Atlassian Suite, Visual Studio Code, Postman