

Darius Ardales

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EDUCATION

De La Salle University

*Bachelor of Science in Computer Science,
Major in Software Technology, Minor in Data Science*

Manila, Philippines

Aug. 2020 – Aug. 2025

EXPERIENCE

Software Engineer Intern

Thinking Machines Data Science, Inc.

Jun 2024 – Aug 2024

Taguig, NCR, Philippines

- Built a web app from scratch utilizing the latest frameworks such as React, Next.js, and TypeScript
- Utilized Git, Jira, and GCP for version control and project management

Student Researcher

Dr. Andrew L. Tan Data Science Institute

Jan 2024 – Present

Taguig, NCR, Philippines

- Explored transformer-based models and self-attention mechanisms
- Researched ways to enhance transformer efficiency
- Investigated methods to break memory bottlenecks while maintaining or improving accuracy

PROJECTS

Strategic Enhancement of Sephora's Recommendations

Jul 2024 – Aug 2024

- Developed recommender systems using content-based filtering, SVD, and logistic regression
- Achieved high-accuracy predictions for personalized product suggestions, improving customer experience

Klima Insights

Mar 2024 – Apr 2024

- Implemented an application illustrating the impacts of global warming in the Philippines using Plotly Dash
- Leveraged GeoPandas and Mapbox for interactive geospatial visualizations

Sentimentry

Feb 2024 – Mar 2024

- Built models for emotion classification using TensorFlow, Keras, and scikit-learn
- Utilized HuggingFace transformers and deployed the backend through FastAPI and HuggingFace Spaces

Exploring Trends in Wholesale Goods Prices Per Region as Economic Indicators

Nov 2023 – Dec 2023

- Analyzed wholesale goods prices across regions in the Philippines using NumPy and Pandas
- Conducted trend analysis using scikit-learn to uncover significant patterns

Unveiling Urban Mobility Dynamics: Insights into Patterns and Trends of Divvy

Oct 2023 – Nov 2023

- Analyzed urban mobility patterns and conducted spatial trend analysis using scikit-learn

CERTIFICATES

CS50's Introduction to Artificial Intelligence with Python

Jun 2024

Harvard Online

- Delved into optimization, constraint satisfaction, and foundational machine learning.
- Explored neural networks, including CNNs, RNNs, and transformers.

PAPERS

Towards a Memory-Efficient Filipino Sign Language Recognition for Low-Resource Devices

24th Philippine Computing Science Congress

- Developed a Filipino Sign Language recognition using TensorFlow and Keras
- Implemented gesture recognition with OpenCV and MediaPipe

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS, SQL, Java

Data Analysis: NumPy, Pandas, Matplotlib, Seaborn, Plotly

Machine Learning: Tensorflow, Keras, scikit-learn, PyTorch, Hugging Face

Databases: Firebase, MongoDB, MySQL, PostgreSQL

Frameworks: React, Next.js, React Native, Express, FastAPI, Node, Tailwind, Bootstrap

Developer Tools: GitHub, Git, Jira, Postman, Jupyter, Figma, GCP, Docker