

# 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

### 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

### Full Stack Developer - Part-time

*Ratio*

May 2024 – Sep 2024

*Toronto, ON, Canada*

- Developed various frontend pages from Figma UI designs using React Native and Tailwind
- Optimized data processing in the Express and MongoDB backend.

### Software Engineer Intern

*Thinking Machines Data Science, Inc.*

Jun 2024 – Aug 2024

*Taguig, NCR, Philippines*

- Took full ownership of a project from design to presentation
- Built a web app from scratch utilizing the latest frameworks such as React, Next.js, TypeScript, and Tailwind
- Utilized Git, Jira, and GCP for version control and project management
- Upheld clean coding practices
- Enhanced the company's planning and office space utilization through the new web app

## PROJECTS

### Klima Insights | *Plotly Dash, HTML/CSS*

Mar 2024 – Apr 2024

- Implemented an application illustrating the impacts of global warming in the Philippines
- Utilized Pandas, NumPy, Matplotlib, and Seaborn for exploratory data analysis
- Leveraged GeoPandas and Mapbox for interactive geospatial visualizations

### MultiVault | *React, Tailwind, Bootstrap, Firebase*

Feb 2024 – Mar 2024

- Crafted a web application as a user-friendly inventory management system
- Integrated Firebase for the backend, Bootstrap for the user interface, and EmailJS for notifications

### Sentimetry | *React, Tailwind, FastAPI, Firebase*

Feb 2024 – Mar 2024

- Created a web application for emotional wellness, integrating Tailwind for UI
- Built models for emotion classification using TensorFlow, Keras, and scikit-learn
- Utilized HuggingFace transformers and deployed the backend through FastAPI and HuggingFace Spaces

### CatChow | *Java, Firebase*

Oct 2023 – Dec 2023

- Developed a Java-based food delivery Android application with Firebase integration

### SBNC Sales Tracker | *React, Express, MongoDB*

Sep 2023 – Dec 2023

- Developed a MERN stack web application with sales tracking and role-based access
- Implemented Passport.js for authentication and Nodemailer for email functionality
- Utilized ExcelJS for recording transactions, deployed backend as REST API on Render

### Binary Multiplier | *Javascript, HTML/CSS*

Mar 2023 – Apr 2023

- Created a web application showcasing binary number multiplication methods

## TECHNICAL SKILLS

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

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

**Databases:** Firebase, MongoDB, MySQL, PostgreSQL

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

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