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

Software Engineer Intern Jun 2024 – Aug 2024
Thinking Machines Data Science, Inc. *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

Student Researcher Jan 2024 – Present
Dr. Andrew L. Tan Data Science Institute *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 May 2024 – Jul 2024
Ratio *Toronto, ON, Canada*
- Developed various frontend pages from Figma UI designs using React Native and Tailwind CSS
- Implemented data manipulation algorithms for streamlined processing in the Express and MongoDB backend

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