Christian Vincent Cabral

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Technical Skills

Languages in order of proficiency: C++, Python, JavaScript, Java, C#
Developer Tools: Git, Supabase, AWS, PostgreSQL, Linux, Docker, CLI, Jupyter
Technologies/Frameworks: Django, Flask, FastAPI, PyTorch, TensorFlow, Numpy, Pandas, Matplotlib, Seaborn

Experience

Full Stack Developer **Jun 2025 – Aug 2025**
Intern *Remote*

- Engineered a full-stack web application to serve as a client proposal, demonstrating an AI-powered sales manager that leverages LLMs and a custom FastMCP framework to provide dynamic product recommendations.
- Contributed to a high-profile client project by implementing multiple user stories and collaborating with a cross-functional team to meet project goals and deadlines

National Geographic Society+The Nature Conservancy Extern **February 2025 – April 2025**
Extern *Remote*

- Applied problem-solving skills to address data inconsistencies and gaps, contributing to effective visual storytelling for public outreach.
- Developed foundational GIS skills and conducted spatial data analysis using Esri's ArcGIS Online tools.

Projects

Pamahres | *Django, OpenAI*

- Engineered a full-stack AI-driven quiz platform using Django REST framework and TypeScript that includes quiz generation based on PDFs
- Designed and implemented an asynchronous task system to pregenerate quiz questions, reducing perceived wait times by over 10 seconds and significantly enhancing user experience
- Reduced redundant API calls and querying times by 60-70% through caching and optimization, enhancing scalability and server performance, achieving sub-1.5s latency
- Implemented background task processing with Celery and Redis for scalable quiz generation and chat features, reducing LLM response completion time by over 50%

Startup Success Predictor | *Python, XGBoost, FastAPI, Docker*

- Performed end-to-end data preprocessing: language translation, handled missing values, and optimized data types to improve model quality.
- Conducted exploratory data analysis (EDA) with Seaborn and Matplotlib, addressing outliers and applying log transformations, contributing to a 33% reduction in log loss.
- Engineered features and evaluated multiple models using F1-score, ROC AUC, and Log Loss; utilized SMOTE to address class imbalance, achieving 95% model accuracy.

Study Hours Estimator | *Python, XGBoost, Flask, Docker, AWS*

- Performed comprehensive data preparation, including standardizing column names, optimizing data types, and cleaning outliers using the IQR method.
- Developed XGBoost/Random Forest models (90% accuracy), improving MAE by 30% through hyperparameter tuning.
- Containerized the application with Docker for reproducibility and deployed it to AWS Beanstalk for scalable hosting.

Certifications

Machine Learning Zoomcamp **Feb 2025**
DataTalksClub

* Completed a 4-month intensive program covering production-grade ML workflows, including data processing, modeling, and deployment.

Python Data Fundamentals **Mar 2025**
DataCamp

* Completed foundational course covering Python data types, control structures, functions, and data manipulation using libraries like NumPy and Pandas.

Education

Ateneo de Naga University **Aug. 2022**
Bachelor of Science in Computer Science *Naga City, Camarines Sur*