

Education

University of San Carlos

Cebu City, Cebu BS Computer Science July 2026

Thesis: Deep Learning-Based Modeling of Marine Heatwave Events: Identifying Key Exogenous Drivers and Enhancing Predictive Accuracy

Relevant Coursework: PhilNITS Full FE Passer 2025

Experience

Adobo Super Software Inc.

Antipolo, Rizal

Software Engineering Intern

March 2026 – June 2026

- Built an end-to-end AI web search feature — backend integration, streaming, source citations, UI, and safety guardrails.
- Added caching for dashboard data using React Query, cutting redundant API calls and LLM token usage.
- Built a bulk sales order release feature with inventory validation and multi-currency support, reducing manual work while keeping transactions safe.
- Shipped 15 pull requests across two production repos, incorporating feedback from senior engineers and AI code review.

Skills

Technical: JavaScript/TypeScript, Python, React, Next.js, Node.js, NestJS (Proficient); Prisma, tRPC, SQL, PostgreSQL (Proficient) Git/GitHub, Docker; Mastra (AI agent framework), OpenAI API, REST/SSE APIs (Proficient)

Laboratory: N-BEATS / N-BEATSX (interpretable deep learning time-series forecasting), 1D CNN Encoders, Recursive Feature Elimination with Cross-Validation (RFE-CV), Random Forest Regression, Kernel SHAP (explainable AI), Diebold-Mariano Statistical Testing, Bayesian Hyperparameter Optimization, ERA5 & NOAA OISST Reanalysis Data Processing

Projects

Trackr — *Full-stack job application tracker with customizable Kanban pipelines for managing opportunities, follow-ups, and documents*

- Developed an interactive drag-and-drop board using Next.js, React, TypeScript, dnd-kit, and TanStack Query, with optimistic updates, rollback, and server reconciliation.
- Engineered a NestJS REST API with PostgreSQL and Prisma; used database transactions to preserve card ordering and automatically log application stage changes.
- Secured workspace data with JWT authentication, bcrypt, input validation, and membership-based authorization; integrated Cloudflare R2 presigned URLs for file uploads and downloads.