

PHILIPPE ANDREI DAEL

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WORK EXPERIENCE

MOBILE APPLICATIONS DEVELOPER

Hayahai

May 2025 - November 2025

- Developed the mobile application for Hayahai, a system that provides an interface for logistics and management of partner seaborne travel companies.
- Worked closely with maintaining the initial admin portal for managing client shipping lines with NestJS for the backend API, Next.js for the frontend pages, and middleware, a PostgreSQL database with Prisma for Object-Relational Mapping.
- Helped in the development of the updated systems for the client-side management, admin, and booking technologies using NestJS for API development, Next.js for the frontend pages, and a PostgreSQL database with Kysely for Object-Relational Mapping.
- Lessened merge and migration conflicts by writing documentation for proper git branching strategies, pull request descriptions, Kysely migration workflows, and other related version control management strategies for less convoluted git histories per Azure DevOps repository, and to avoid migration conflicts during development.

SOFTWARE DEVELOPER INTERN

Fullscale

September 2025 - January 2026

- Maintained the backend API and frontend pages for the internal systems used by the sales team and management, using .NET (ASP.NET) for the backend API systems, Blazor Pages and Next.js for the frontend, and a MySQL database.
- Gained experience in working with developer teams through Jira, following Scrum methodology.
- Studied and experienced industry development strategies relating to CI/CD pipelines, Git branching strategies, production deployment strategies, SSH, developer pull request and commit conventions.

PROJECTS

CookFlow

<https://cookflow-two.vercel.app/>

- A modern, interactive Next.js 14 web application acting as a smart cooking companion, utilizing TypeScript, Tailwind CSS, and Framer Motion. It features a voice-guided cooking player powered by the Groq AI SDK for low latency Text-to-Speech, robust recipe discovery, and secure data persistence using Supabase.
- Developed a REST API for a voice-guided cooking player using Groq SDK and Next.js, reducing TTS inference latency by 70% to 135ms for real-time accessibility.
- Optimized PostgreSQL relational queries via Supabase in an Agile environment, slashing full recipe data fetch times to under 50ms and enabling 500+ req/sec throughput.
- Built dynamic UI components utilizing Framer Motion and React, maintaining strict CI/CD pipeline code standards while achieving sub-20ms initial render times.

PillPal

<https://pill-pal-three.vercel.app/>

- AI-powered Next.js and React health application dynamically connecting patients to medical insights (diseases and multi-tier treatments), utilizing Groq API's LLaMA-3.3-70B model behind a responsive, TailwindCSS-styled client.
- Architected a robust REST API backend using Next.js 14 and Groq's Llama-3 model, reducing AI inference latency by 75% to ~450ms while scaling to 500+ requests/min.
- Engineered a scalable React symptom search engine within Agile sprints, parsing 10,000+ data points in under 3ms to guarantee constant 60 FPS UI responsiveness.
- Designed automated RegEx-based payload parsers to sanitize LLM hallucinations, decreasing malformed response errors to under 1% before continuous integration deployments.
- Implemented CI/CD-ready mobile-first interfaces utilizing Tailwind CSS and Framer Motion, optimizing DOM paint times to <1ms and improving layout shift scores by 40%.

goodb.AI

<https://goodb-ai.vercel.app/>

- a Next.js and TypeScript web application that detects and removes AI-generated music from Spotify playlists.
- Engineered an AI music detection pipeline scanning 500+ tracks under 3 minutes using Next.js and WebAssembly.
- Optimized a PyTorch audio model for browser execution, achieving sub-200ms latency per track using ONNX Runtime.
- Developed an audio streaming proxy with a fallback mechanism, increasing track analysis coverage by 35% using REST APIs.
- Implemented secure OAuth 2.0 authentication maintaining stable, long-running user sessions via Next.js API routes.

Churn Risk Detector <https://huggingface.co/spaces/reinaissanced/churn-risk-detector>

- A machine learning logistics tool built with Python and scikit-learn that leverages a TF-IDF + Random Forest NLP pipeline and domain-specific heuristics to predict customer churn stringently. Features include an automated dataset merger handling 2,100+ Hugging Face samples, robust Pytest validation, and a dynamic Gradio frontend.
- Engineered NLP classification model to predict customer churn, maintaining 78.7% cross-validation accuracy using scikit-learn and TF-IDF.
- Optimized batch inference vectorization for the predictive model, scaling system throughput to ~78,740 req/sec for REST API integration.
- Developed test suite with Pytest for CI/CD pipelines, validating application logic with 81% code coverage and a 0% error rate.

Huggle

- A comprehensive, microservices-driven e-commerce marketplace platform designed to seamlessly connect buyers and sellers while leveraging artificial intelligence to optimize inventory and enhance the user experience.
- Orchestrated by an ASP.NET Core 9.0 backend with a PostgreSQL database, the platform is securely overseen through a modern React/TypeScript web dashboard used for user/seller verification, moderation, and analytics.
- Tailored Mobile Experiences: Features two distinct Expo/React Native mobile applications that provide dedicated interfaces for Buyers (location-based store discovery, ordering, and chat) and Sellers (inventory management, store statistics, and real-time customer communication).
- AI-Powered Product Bundling: Integrates a standalone FastAPI Python service that utilizes LLMs (DeepSeek/Llama 3) and generative AI (Stable Diffusion) to intelligently group expiring products into curated bundles, automatically generating catchy descriptions and marketing images to reduce waste.

CERTIFICATIONS, SKILLS & INTERESTS

Certifications

Codechum C Certification Exam, Codechum Java Certification Exam, TOPCIT Competency Level 3, PhilNITS FE Level 2, AWS Cloud Foundations, AWS Cloud Architecting

Technologies

Git, GitHub, Azure DevOps | Figma | C, C++, C#, .NET, ASP.NET, Python, Java, PHP, HTML, CSS, JavaScript, TypeScript, Firebase, MongoDB, Django, React, NestJS, Next.js, Bootstrap, TailwindCSS, Express.js, Node.js | Ubuntu, Linux, Windows

AWARDS

- **Top 10 DOST-PCAARRD Agri-Aqua Innovation Challenge (2024)**
- **Third Prize Finalist for Southeast Asia Division Contest of China International College Students Innovation Competition (2025)**
- **STEP UP Madasigon Start Up Challenge Finisher (2025)**
- **Contestant in the Komsai Week Hackathon held at the University of the Philippines Cebu (2025)**
- **PhilNITS Certified Level 2 FE Engineer (2025) and Level 3 TOPCIT Competency (2026)**

EDUCATION

Bachelor of Science in Computer Engineering (Tertiary) August 2022 - May 2026

Cebu Institute of Technology - University (Consistent Dean's Lister & Full Scholar)

- **Relevant Coursework:** Information and Database Management, Data Structures and Algorithms, Discrete Structures, Applications Development, Mobile Development, Automata Theory, Software Engineering
- DOST-SEI Scholarship Merit Recipient (Received 2022)

Science, Technology, Engineering, and Mathematics Strand (Secondary)

June 2016 - July 2022

Philippine Science High School - Zamboanga Peninsula Region Campus

- **GWA: 1.20 (Director's List Scholar)**