

Mary Kate Anecito

Intern

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Education

Bachelor of Science in Computer Science
Centro Escolar University
- Current GWA: 1.078

08/2022 – 07/2026
Makati

Projects

Leveraging Deep Learning in Carbohydrate Tracking and Diabetes Management for Health-Conscious Individuals

08/2025

Undergraduate Research 1 and 2 Project

- **Role:** Full Stack Developer, Researcher, Project Manager
- **Description:** Led the end-to-end development of CarboTrackr, a research-driven AI-powered mobile health application designed to automate carbohydrate tracking and improve nutritional self-management for health-conscious adults. The system integrates deep learning-based food recognition, automated carbohydrate estimation, and behaviorally grounded design principles to reduce manual logging burden while maintaining usability, accuracy, and system reliability. The application was developed following Agile methodology and evaluated using ISO/IEC 25010 software quality standards to ensure functional suitability, performance efficiency, usability, and security.

- **Key Contributions:**

- Designed the overall system architecture, relational database schema, and corresponding Entity-Relationship Diagram
- Initialized and structured project directory of backend and frontend services following microservices architecture
- Built backend using ExpressJS
- Developed cross-platform mobile frontend using React Native and Expo applying Container/Presentation Design Pattern
- Managed project coordination and task delegation
- **Tech Stack:** Git, NodeJS, ExpressJS, React Native, Expo, Python, Neon Postgres, Clerk Auth, Render, Third-Party APIs
- **Tools:** JetBrains WebStorm, Postman, GitHub, Amazon SageMaker
- **Repository:** github.com/CarboTrackr2025 ↗

Redesigning Yahoo Mail (Mobile App)

11/2024 – 11/2024

Human Computer Interaction School Project

- **Role:** UI/UX Designer
- **Description:** Conducted a comprehensive UI/UX redesign of the Yahoo Mail mobile app
- **Key Achievements:**
 - Applied Nielsen's 10 Heuristic Principles to evaluate interface issues
 - Performed persona-based analysis to define target user behaviors
 - Conducted Red Route analysis to prioritize high-frequency user tasks
 - Developed high-fidelity prototype in Figma
- **Tech Stack:** Figma, Canva
- **Canva Presentation:** canva.com/design/DAG22-oEBc0/NA0E8QyFJ2f2XrJ-ah_7Ow/edit ↗

athAIna

11/2024 – 05/2025

Software Engineering 1 and 2 School Project

- **Role:** Full-stack developer and project manager
- **Description:** Developed a RESTful API and AI-powered flashcard application to support knowledge assessment and progress tracking modules
- **Key Contributions:**
 - Designed the overall system architecture, relational database schema, and corresponding Entity-Relationship Diagram (ERD).
 - Initialized and structured the project directory for backend and frontend services following a microservices architecture
 - Built backend using Django REST Framework
 - Developed frontend using Vue.js
 - Containerized backend services using Docker
 - Implemented Redis Caching
 - Managed project coordination and task delegation
- **Tech Stack:** Django, Django REST Framework, Vue.js, Docker, Redis, MySQL, Git
- **Tools:** GitHub, JetBrains WebStorm and PyCharm, Visual Studio Code, Docker Desktop, Render, Cloudflare, XAMPP, Notion
- **Repository:** github.com/athAIna2024 ↗

AniMaker

03/2024 – 05/2024

Fundamentals of Programming and Web Development School Project

- **Role:** Full Stack Developer
- **Description:** Developed a full-stack web application to manage anime records and relational data across multiple entities.
- **Key Achievements:**
 - Initialized and structured the project directory following a monolithic architecture
 - Designed relational database schema and ERD
 - Built backend using Laravel
 - Developed responsive frontend with TailwindCSS

- Implemented CRUD operations with data validation
- **Tech Stack:** Laravel, PHP, TailwindCSS, MySQL
- **Tools:** XAMPP, JetBrains Webstorm, Visual Studio Code, GitHub
- **Repository:** github.com/eisBlume0901/AniMaker

Inventory Management System for Acne Org Alternatives

09/2023 – 12/2023

Information Management Project

- **Role:** Technical Writer, Project Manager, UI Designer
- Description: Led the system analysis and design documentation for a web-based Inventory Management System aimed at automating manual inventory processes and resolving operational issues such as inaccurate stock records, stockouts/overstocking, and expiration tracking.
- **Key Contributions:**
 - Translated business requirements into structured functional and non-functional system specifications
 - Designed core modules including Product Management, Inventory Tracking, Role-Based Account Management, and PDF Report Generation
 - Produced context flow diagram, flowchart diagram, data flow diagram, system architecture, and use case diagram for each core modules
 - Proposed a scalable full-stack implementation strategy aligned with Agile methodology, incorporating trade-off analysis to balance system performance, maintainability, and development constraints.
- **Documentation:** github.com/eisBlume0901/Information-Management-Final-Project

Professional Experience

Backend Developer Intern

Infotouch Corporation

01/26 – 02/2026
Makati

- Developed a Minimal API endpoints for data processing and retrieval
- Created SQL scripts to support endpoint functionality
- Refactored frontend-dependent logic into backend services
- Tested and validated APIs using Postman and MySQL Workbench
- **Tech Stack:** C#, MySQL, Postman, Git
- **Tools:** JetBrains Rider IDE, GitHub

Skills

Programming Languages

Python, JavaScript/TypeScript, Java

Backend Development

NodeJS, ExpressJS, Django, Django REST Framework

Frontend & Mobile

React Native using Expo, VueJS, TailwindCSS, VanillaCSS

Databases

MySQL, PostgreSQL, NoSQL, Relational Database Design

Devops & Infrastructure

Docker, Redis, Render

AI

Data Analysis, Generative AI Integration

Tools

- **Development Environments:** JetBrains IDE, Visual Studio Code
- **API & Backend Testing:** Postman, XAMPP, MySQL Workbench
- **Containerization:** Docker Desktop
- **Design & Prototyping:** Figma, Canva
- **Productivity & Documentation:** Notion, Google Workspace, Microsoft 365

Certificates

Databases and SQL for Data Science with Python (with Honors)

- Issued by IBM in July 2024

Python Project for Data Science

- Issued by IBM through Coursera in June 2024

Python for Data Science, AI & Development

- Issued by IBM through Coursera in June 2024

Programming Foundations: Object-Oriented Design

- Issued by LinkedIn in June 2024

Python Object-Oriented Programming

- Issued by LinkedIn in July 2024

Data Visualization and Dashboards with Excel and Cognos

- Issued by IBM through Coursera in May 2024

Excel Basics for Data Analysis

- Issued by IBM through Coursera in May 2024

Introduction to Data Analytics

- Issued by IBM through Coursera in April 2024

Java Programming I

- Issued by University of Helsinki in February 2023

Computer Systems Servicing

- Issued by TESDA in January 2023; valid until January 2028

Organizations

CEU-CSIT Student Council

Secretary

08/2024 – 05/2025
Makati

- Managed administrative duties including transcription of meeting minutes, coordinated and communicated effectively with colleagues, and facilitated department events from planning to execution