KIANN A. PEÑAREDONDO

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EDUCATION

Pamantasan ng Lungsod ng Maynila **September 2021 - October 2025**
Bachelor of Science in Information Technology

Manuel A. Roxas High School **June 2019 - March 2021**
Information and Communications Technology | Senior High School

WORK EXPERIENCE

Electronic Data Processing Services - Office of the Mayor Manila **February - April 2025**
Operations Associate - Internship

- *Created a Daily Time Record (DTR) application, provided technical assistance for Go! Manila app users, and delivered daily customer service.*

Public Employment Service Office - City of Manila **December 2024 - January 2025**
LGU Representative - Senior Payout

- *Assisted the Barangay Council in facilitating the distribution of senior citizen allowance.*

Worldbex - World Bazaar Festival (ABS-CBN Foundation) **December 2024**
Event Staff Assistant

- *Checked the event booth setup to ensure it was completed on time and handled ticket verification.*

PROJECTS

Daily Time Record Application **February - April 2025**
System | Developer and Tester

Developed a desktop application used by Electronic Data Processing Services to automate the conversion of .dat files—generated from biometric fingerprint scanners—into organized Excel-based Daily Time Records. Verified accuracy of generated Excel reports and ensured data integrity for employee logs.
Key features include:

1. Automated file conversion: Transforms raw .dat files into structured Excel sheets.
2. DTR report generation: Displays complete logs of time-ins, time-outs, and absences.
3. Employee summaries: Generates a summary sheet of all employees' attendance data.
4. Individual employee reports: Creates separate sheets per employee for detailed tracking.
5. Conducted manual, functional, and non-functional testing to ensure system reliability.
6. Created and executed test cases, documented bugs, and coordinated fixes prior to client/user testing.

Languages and Technologies Used:

1. Frontend & Backend: Python (Tkinter)
2. Database: SQLite for employee and attendance data storage
3. Functionality: File parsing, data handling, and Excel file generation with formatting

EmoShown — AI-POWERED EMOTIONAL WELLNESS HUB WITH SENTIMENT ANALYSIS, ANOMALY DETECTION, AND COLLABORATIVE FILTERING **December 2024**
Thesis and System | Developer, Tester, and Author

Developed EmoShown, a mobile application aimed at enhancing emotional wellness, and assisted in evaluating the emotional interpretation accuracy of AI-driven features such as:

1. *Sentiment analysis using the VADER algorithm for emotional state interpretation.*
2. *Anomaly detection using Isolation Forest for identifying deviations in emotional patterns.*
3. *Collaborative filtering with matrix factorization for personalized activity recommendations.*
4. *Performed manual, functional, and non-functional testing to validate core features.*
5. *Designed and maintained test cases, tracked and documented issues, and ensured system stability before client/user testing.*

Languages and Technologies Used:

1. *Frontend: React Native*
2. *Backend: Python (Flask)*
3. *Database: Firebase Firestore for structured data, Firebase Storage for media files*
4. *AI Models: VADER for sentiment analysis, Isolation Forest for anomaly detection, and collaborative filtering with matrix factorization*

***Presentor** - 2024 International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA) - Cybernetics and Data Science*

BiyaHero — Ride - Sharing Mobile Application **December 2024**

System | Developer

Developed BiyaHero, a ride-sharing mobile application aimed at providing seamless and efficient transportation services through key features such as:

1. Real-time ride requests and driver matching.
2. GPS tracking for drivers and users.
3. User authentication and profile management.
4. Payment gateway integration.
5. Admin panel for managing drivers and users.

Languages and Technologies Used:

1. Frontend and Backend: C#, .NET MAUI
2. Database: SQLite & Firebase
3. Integration: Google Maps API for real-time location tracking

GlamTech — A WEB-BASED BEAUTY SALON AI-POWERED BOOKING AND FORECASTING SYSTEM **August 2024**

Thesis and System | Developer, Tester, and Author

Developed GlamTech, a web-based system aimed at enhancing beauty salon operations through AI-powered features such as:

1. *AI-powered booking system using decision tree algorithms to optimize staff-client matching.*
2. *Demand forecasting using ARIMA for efficient resource allocation and scheduling.*
3. *Systemized logbook and analytics for tracking performance, sales, and commissions.*
4. *Conducted manual, functional, and non-functional testing to ensure system reliability.*
5. *Created and executed test cases, documented bugs, and verified fixes before client/user testing.*

Languages and Technologies Used:

1. *Frontend: JavaScript, HTML/CSS*
2. *Backend: PHP, Python*
3. *Database: MySQL*
4. *Machine Learning Models: Decision Tree for booking optimization and ARIMA for demand forecasting*

SummerBot: Clash of the Circuit Titans **May 2024**

SumoBot Competition | Builder and Designer

Build and design a SumoBot, a small, autonomous robot created for robotic sumo wrestling matches. It uses sensors, motors, and programming to detect its opponent and push it out of the circular ring.

- *Won the Best in Design*

PUBLICATIONS

Peñaredondo, K., Camu, J., Centeno, C., Mercado, M. A., Agustin, V., & Gonzales, M. G. (2024). EmoShown: AI-powered emotional wellness hub with sentiment analysis, anomaly detection, and collaborative filtering. In 2024 International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA) (pp. 954–959). IEEE. https://doi.org/10.1109/ICICYTA64807.2024.10912919

SKILLS

- Computer Literate
- Skilled in Microsoft Office applications: Word, Excel, and PowerPoint.
- Proficient in Google Workspace tools: Docs, Sheets, and Slides.
- Experienced in front-end and back-end development.
- UI/UX design.
- Fluent in English and Filipino communication.
- Strong team collaboration abilities.
- Proficient in RJ45 wiring