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. Conducted manual, functional, and non-functional testing to ensure system reliability, and created and executed test cases, documented bugs, and coordinated fixes prior to client/user testing.

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.

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 sentiment analysis, anomaly detection, and collaborative filtering. Performed manual, functional, and non-functional testing to validate core features, and designed and maintained test cases, tracked and documented issues, and ensured system stability before client/user testing.

Key Features include:
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.*

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 real-time GPS tracking, secure payment integration, and user-friendly ride management. Conducted manual, functional, and non-functional testing to ensure system reliability, and created and executed test cases, documented bugs, and verified fixes before client/user testing.

Key features such as:
1. Real-time ride requests and driver matching.
2. GPS tracking for drivers and users.
3. Payment gateway integration.
4. 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 intelligent staff-client matching and automated scheduling. Conducted manual, functional, and non-functional testing to ensure system reliability, and created and executed test cases, documented bugs, and verified fixes before client/user testing.

Key features inlcude:
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.*

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