CARL EMMANUEL M. MACABALES

3RD YEAR COMPUTER SCIENCE STUDENT (AI SPECIALIZATION)

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SUMMARY

Passionate Computer Science student at Mapúa University specializing in Artificial Intelligence and Machine Learning. Skilled in combining AI/ML expertise with full-stack development to build innovative and practical solutions. Experienced in developing real-time applications, predictive models, and end-to-end web systems with real-world impact.

PROFESSIONAL EXPERIENCE

Full-stack developer, Pax Romana CTHM Unit - UST   **Jul 2025 - Present**
- Built a prayer app for UST students using React Native and Firebase, with GitHub for collaboration.
- Developed cross-platform features with daily prayers, schedules, and notifications, soon to be published on App Store and Google Play.

PROJECTS

Read My Face - Real-time Emotion Detection System - readmyface   **Jun 2025 - Aug 2025**
React, face-api.js, Computer Vision, JavaScript
- Developed AI-powered emotion detection system with real-time visual feedback and analysis
- Implemented advanced computer vision algorithms for accurate facial expression recognition
- Created dynamic user interface with smooth animations and responsive design principles

MyApt - Apartment Dashboard Management System - myapt   **Mar 2025 - Jun 2025**
Firebase, React, JavaScript, SCSS
- Created comprehensive property management platform with real-time data visualization and analytics
- Implemented tenant management features, dashboard analytics, and automated reporting systems
- Developed secure authentication system and responsive user interface for multi-device compatibility
Test Accounts: test@test.com / test123

Earfquake - Earthquake Prediction Analysis Tool - earfquake   **Oct 2024 - Dec 2024**
Python, Streamlit, Machine Learning, Data Analysis
- Built comprehensive earthquake prediction system using advanced ML algorithms and statistical models
- Developed interactive data visualization dashboard for seismic activity analysis and risk assessment
- Implemented predictive models achieving high accuracy in earthquake risk prediction

SKILLS

AI/ML Technologies - Machine/Deep Learning, Computer Vision, Data Analysis
Programming Languages - C++, Python, JavaScript, TypeScript
Backend - AWS, Firebase, Appwrite, RESTful APIs
Development Tools - Git/Github, Vite, Node.js
Soft Skills - Problem Solving, Project Management, Team Collaboration, Technical Communication

EDUCATION

Bachelor of Science in Computer Science   **Aug 2023 - Aug 2026**

Mapúa University
- Specialization in Artificial Intelligence with focus on Machine Learning and Software Engineering
- Relevant Coursework: Computer Simulations, Cyber-Physical Systems, Data Warehouse Concepts, Engineering Practices for Building Quality Software, Mathematics for Computer Science

ADDITIONAL INFORMATION

- **Languages:** English (Fluent), Filipino (Native)
- **Certifications:** Computer Simulations, Cyber-Physical Systems: Modeling and Simulation, Data Warehouse Concepts Design and Data Integration, Engineering Practices for Building Quality.