





Rein Mark Del Rosario Fullstack Developer

 Portfolio

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Profile

Fourth-year university student with hands-on experience developing full-stack applications across web, mobile, and IoT domains. Experienced in building web applications with modern frameworks, designing responsive interfaces, and implementing data-driven solutions. Seeking internship opportunities in Full-Stack Development or Software Engineering opportunities to contribute technical skills and grow in a professional environment.

Skills

Programming Languages: Python, JavaScript, Typescript, PHP, MySQL

Frameworks / Dev Tools: Django, Flask, React, React Native, ngrok, Ubuntu, Git

Technologies: Firebase, Ollama, Power BI, Adobe XD, Figma, xampp

Soft Skills: Problem-Solving, Analytical, Adaptability, Communication, Time Management

Projects

IoT-based Flood Monitoring System

May 2025 – Present

Python/Flask, scikit-learn, React, Firebase, M360, open-meteo

- Built a real-time web dashboard for flood monitoring and admin emergency response.
- Integrated two-way SMS API blasting and GPS location-sharing to alert 1000 residents.
- Implemented a flood prediction model receiving live data and weekly retraining cycles, achieving 88% accuracy.

AI Food Recommendation App

Feb 2025 – May 2025

Python/Django, React Native, Expo, MySQL, Ollama (gemma3:4b)

- Built a mobile application that recommends food recipes according to user dietary preferences, budget, and allergies, with an image recognition feature.
- Integrated gemma3 large language model locally hosted through ollama for personalized recommendations.
- Implemented django user authentication for secure account management

Offline Attendance System

Jun 2025 – Aug 2025

Python/Flask, qrcode, sqlite

- Developed automated reporting system with scheduled email delivery
- Built manual student addition interface alongside import capabilities
- Identified and resolved multiple bugs to improve application stability

Education

Bachelor of Science in Computer Science

Sep 2022 – present

University of Perpetual Help System DALTA – Molino | Dean's Lister

Relevant Coursework: Design, Analysis and Algorithms, Operating Systems, Discrete Structures, Artificial Intelligence, Data Mining, Database Systems, Information Assurance and Security, Networking and Communication, Web Systems and Technologies

Certificates and Training

Cisco Ethical Hacker  – November, 2025

Certiport Python IT Specialist  – December, 2024

Alison Introduction to Memory Management – November, 2024

References

James Scott Baronia, *Classmate*

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