

# Bently Rafa *FULLSTACK DEVELOPER*

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📍 Manila, Philippines

🌐 LinkedIn

## EDUCATION

### Bachelor of Science in Computer Science

2022 – Present | Manila, Philippines

FEU INSTITUTE OF TECHNOLOGY

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Computer Vision, Artificial Intelligence

## EXPERIENCE

### Software Developer

Dec 2024 – Jul 2025

Mommy V's Puto Shop

- Built a custom order management system with inventory tracking, order processing, customer management and real-time notifications.
- Developed a PWA with IndexedDB for offline support, installable on desktop, iOS, and Android.

## PROJECTS

### SolarPal [🔗](#)

Oct 2025 – Present

- Developed a FastAPI-based web app integrating NASA POWER API for solar potential mapping.
- Implemented real-time site search and irradiance visualization for nationwide coverage.
- Optimized backend computation, improving solar data retrieval speed by 30%.

### Road Defect Indexing System [🔗](#)

Feb 2025 – Jul 2025

- Developed a road crack segmentation algorithm, improving accuracy by 20%.
- Collected and annotated 10,000+ images; trained a YOLOv10 model achieving 68% mAP for real-time defect detection.
- Integrated Google Cloud's Cloud Storage for scalability.

## LEADERSHIP AND ACTIVITIES

### ACMx Forum – Project ACM/X

Dec 2024 – Jun 2025

- Led development of a modern forum application with a team of 3 developers.

## SKILLS

- Languages: Python, JavaScript, TypeScript, Go, Java, PHP, C++, C#, SQL, Kotlin
- Frameworks & Tools: FastAPI, React, Next.js, Supabase, Flutter, PostgreSQL, Tailwind CSS, Docker, Git/GitHub, CI/CD, Node.js
- AI & Machine Learning: YOLOv10, OpenCV, TensorFlow, PyTorch, Computer Vision, Model Training & Optimization
- Cloud & DevOps: AWS, Google Cloud Platform, WebSockets, RESTful APIs, Progressive Web Apps (PWA), Agile, Test-Driven Development (TDD)

## CERTIFICATES

- Certified IT Specialist – Python [🔗](#)
- Certified in PMI Project Management Ready [🔗](#)

## AWARDS

- TOPCIT Level 3 Competency – 12th National Examination (Philippines), May 2025
- Codtober Hackathon Champion – “Kape ni Rab” Website, Oct 2024
- NASA Space Apps Hackathon – Team Solourn (SolarPal Project), Oct 2025
- 12th Place – Java Programming, 13th IT Skills Olympics