Bently Rafa

Fullstack Software Engineer

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EDUCATION

Bachelors of Science in Computer Science Specializing in Software Engineering   2022 – Present
FEU INSTITUTE OF TECHNOLOGY   Manila, Philippines
Relevant Coursework: Data Structures & Algorithms, Software Engineering,
Computer Vision, Artificial Intelligence

EXPERIENCE

Software Developer   Dec 2024
Mommy V's Puto Shop   Tiaong, Quezon
- 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

ManhwaSeen – Forum and Tracker Platform 🔗   Jul 2025 – Present
- Built a **full-stack platform** featuring forums, reviews, and reading tracker.
- **Developed a scalable system leveraging real-time edge functions for efficiency.**
- Implemented a **feedback/bug tracker** with tailored title suggestions.

Road Defect Indexing System – Crack Detection & Severity Analyzer 🔗   Feb 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 scalable and secure image handling.

LEADERSHIP AND ACTIVITIES

GradeCal – Chrome Extension (FEUTECH Solar Portal) 🔗   Jul 2025 – Aug 2025
- Built Grade calculator and planner for Solar Portal with 40+ active users.

ACMx Forum – Project ACM/X   Dec 2024 – Jun 2025
- Led development of a modern forum application with a team of 3 developers.

Codetober Hackathon – Champion (Kape ni Rab Website)   Oct 2024
- Contributed as a core developer by designing and developing the menu page.

SKILLS

- Languages: Python, JavaScript, TypeScript, Go, Java, PHP, C++, C#, SQL
- Web Development: Next.js, React, Supabase, Neon, PostgreSQL, Tailwind CSS, PWA, Chrome Extensions
- Software Development: System Architecture, Test-Driven Development (TDD), Agile, System Design
- AI/ML: Machine Learning, Computer Vision, Model Training & Optimization
- Others: Git/GitHub, Docker, CI/CD, WebSockets, AWS, Google Could Platform

CERTIFICATES

- Certified IT Specialist – Python 🔗
- Certified in PMI Project Management Ready 🔗
- Achieved Level 3 in the 12th TOPCIT Philippines