

Marco Andrei R. Belen

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Third-year Computer Science student (Machine Learning specialization) at NU Lipa and freelance web developer for small businesses — most recently a booking platform and patient-records system delivered to a dental clinic in Lipa. Working toward machine learning engineering.

Education

National University – Lipa — BS Computer Science, Specialization in Machine Learning Expected 2028

- Dean's Lister every term to date
- Coursework: Data Structures & Algorithms, OOP, Database Systems, Data Mining, Mathematical Analysis

Projects

RMG Dental Clinic — booking site & clinic manager | React, TypeScript, Firebase, PWA rmg-dental-clinic.vercel.app

- Delivered two production apps on one Firebase backend for a real clinic: a public booking site with real-time slot locking, and a private records manager with medical alerts, billing history, and an FDI dental chart that updates itself from logged procedures
- Offline-first installable PWA; every database write validated by server-side security rules; push notifications alert the clinic the moment a booking arrives

Agent Bobs — IBM Bob 2.0 Hackathon (lablab.ai) | Python, MCP, REST API, WebSockets Sep 2026 · team of 4

- Built the server that keeps AI coding agents from breaking each other's work: agents declare plans through MCP tools, and the server blocks colliding writes, like one renaming a function another calls
- Ran the measured comparison: without it, Git merged with 0 conflicts and tests failed; with it, colliding agents were stopped and tests passed

Telecom Customer Churn Prediction API | Python, XGBoost, scikit-learn, FastAPI github.com/codrei/telecom-churn-api

- End-to-end ML pipeline on the IBM Telco dataset — cleaning, encoding, class-imbalance correction — with XGBoost tuned for recall over precision: catches 80% of churning customers (0.63 F1)
- Served behind a FastAPI /predict endpoint — a deployable service, not a notebook

PaperMind — research-paper study tool | TypeScript, Google Gemini, RAG, Firebase, Vite papermind-sand.vercel.app

- Web app that turns research papers into summaries, flashcards, quizzes, and a Q&A chat grounded in the paper via retrieval-augmented generation
- Gemini API key secured server-side behind a rate-limited Vercel function; Firebase handles auth and storage

Fitness Synergy — gym management system | PHP, React, MySQL, database design github.com/codrei/Fitness-Synergy

- Normalized schema for members, memberships, schedules, and payments, with integrity enforced at the database layer

Work Experience

Freelance Web Developer — Self-employed, Lipa, Batangas 2026 – Present

- Scope, build, deploy, and support websites and web systems for small businesses end to end — the RMG Dental Clinic platform, plus pitch sites for local cafés; currently building a café website with a two-person team

Student Assistant — National University – Lipa Nov 2024 – Jun 2026

- Five consecutive paid terms — four at the Library Resource Center, one at the Asset Management Office — alongside a full course load; stepped away in June 2026 to focus on freelance work

Activities & Leadership

Class Representative — CODECS (Computer Science student organization), NU Lipa 2024 – 2026

- Elected two years running — Freshman (2024–2025), then Sophomore Representative (2025–2026)

Skills & Certifications

Web: HTML/CSS, Tailwind CSS, JavaScript, TypeScript, React, Firebase (Auth, Firestore, security rules), SQL/MySQL, PHP, Git/GitHub, Vercel

ML & data: Python (pandas, NumPy, scikit-learn, XGBoost), data preprocessing, model evaluation, FastAPI model serving

Certifications: Microsoft Certified: Azure AI Fundamentals (2026) • Google AI Professional Certificate (2026) • full list verified at credly.com/users/marco-andrei-belen