

# JOHN CARLO D. MARTIN

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Brgy. #45 Tangid Laoag City, I.N



## OBJECTIVE

- Aspiring entry-level developer with a solid foundation in Python, front-end development, and embedded systems. Passionate about solving real-world problems through code and eager to learn and grow in a collaborative, high-impact environment.

## EXPERIENCE

### National Bureau of Investigation (NBI)

June 2024 - July 2024

Software Engineering Intern

Laoag City, Ilocos Norte

- Built a Python-based tool to help find and pull out warrant information from PDF, scanned, and Word documents. Used Tesseract OCR to read scanned files and made the results easier to understand by adding keyword filters and organizing the output clearly.

## EDUCATION

### Northwestern University (NWU)

Expected Graduation: June 2025

Bachelor of Science in Computer Engineering

Laoag City, Ilocos Norte

- Courses: Programming Logic and Design, Data Structures and Algorithms, Object-Oriented Programming, Software Design, Embedded Systems, Operating Systems

## PROJECTS

### Warrant Searcher Application

Internship Project at NBI

Python | Tesseract OCR

- Developed a Python tool to search warrant-related info in PDF, scanned, and Word files. Used Tesseract OCR for text extraction and enabled keyword-based search to reduce manual review time.

### CitinexAI (Front-End Prototype)

Technopreneurship Class Project

HTML | CSS | JavaScript

- Built a responsive website prototype for an AI-based smart city planner. Designed interactive layouts to showcase AI, IoT, and GIS in urban development, presented during a business plan pitch.

### Biometric-Activated Smart Classroom

Thesis/Final Year Project

Arduino | ESP32 | ESP32-CAM | RainMaker IoT

- Developed a smart classroom prototype with biometric access, automated appliances, and session-based entry. Added RFID-based monitoring, IoT intrusion alerts, and live CCTV using ESP32-CAM.

## SKILLS

**Programming Languages:** Python, HTML5, CSS3, JavaScript, Java

**Developer Tools:** Visual Studio Code, Git & Github, Arduino IDE

**Soft Skills:** Communication, Problem Solving, Adaptability, Team Collaboration