


CARLOS ENRIQUE HERNANDEZ DE LA CRUZ

COMPUTER SYSTEMS ENGINEER - RECENT GRADUATE

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 [Carlos De la Cruz](#)

PROFILE

Recent graduate in Computer Systems Engineering with a strong foundation in software development, specializing in programming languages such as **Java, Python, HTML, CSS, and JavaScript**. Possesses hands-on experience through academic projects, including mobile applications and web systems, utilizing **frameworks like Django and Bootstrap**, as well as relational **databases (SQLite, MySQL)**. Recognized for strong problem-solving skills, teamwork, and effective communication, complemented by experience in technical support and computer equipment maintenance.

PROFESSIONAL EXPERIENCE

Web Developer - Tuxtlan Coffee & Pets | Tuxtla Gutiérrez, Chiapas

January 2025 - May 2025

Accountable for the comprehensive development of a web-based inventory and sales management system for Tuxtlan Coffee & Pets as part of the professional residency.

- **Developed the backend using Django** following the Model-View-Template (MVT) architecture for structured and maintainable software.
- **Designed and implemented an SQLite database** to efficiently manage inventory and sales data.
- **Created responsive and user-friendly interfaces using HTML, CSS, JavaScript, and Bootstrap**, prioritizing accessibility and usability.
- **Programmed automated functions for generating Excel-based reports.**
- **Implemented dynamic filters** and search features by name, date, and category to optimize data management.
- **Utilized Git for version control and collaborated via a GitHub repository** to manage project updates and teamwork.

Mobile Application Developer - Academic Project at the National Institute of Technology of Mexico | Tuxtla Gutiérrez, Chiapas

September 2024 - December 2024

- **Developed secure authentication functionalities**, including user registration and login.
- **Implemented full CRUD operations** for efficient task management.
- **Integrated a multimedia module** enabling local video playback and streaming.

- Collaborated on the design and refinement of the graphical interface to ensure a user-friendly experience.
- Performed functional testing and resolved bugs to ensure application stability and reliability.

Equipment Support and Maintenance Technician - National Institute of Technology of Mexico, Tuxtla Gutiérrez Campus | Tuxtla Gutiérrez, Chiapas

July 2024 - January 2025

- Performed regular cleaning and maintenance of computer equipment to extend hardware lifespan.
- Assembled and configured hardware for new workstations.
- Installed and updated software, including productivity suites such as Microsoft Office.
- Implemented structured cabling to improve and optimize classroom network performance.
- Diagnosed and resolved technical issues to ensure optimal system availability and performance.

EDUCATION

2021 - 2025

TECNOLOGICO NACIONAL DE MEXICO |
TUXTLA GUTIÉRREZ CAMPUS

Computer Systems Engineering

*Specialization in Web and Mobile Technologies for
E-commerce Applications*

CERTIFICATIONS

- SQL Databases - Platzi
- AI Immersion
- AI Principles in Azure
(In progress)

LANGUAGES

- Native Spanish Speaker
- Intermediate English B1

TECHNICAL PROFICIENCIES:

- Mobile application development using Java in Android Studio.
- Full-stack web development with Django, HTML, CSS, and JavaScript.
- Management and optimization of relational databases (MySQL, SQLite, SQL).
- Version control with Git and GitHub.
- Object-oriented programming in Java and Python.
- Proficiency in Microsoft Office, intermediate Excel, and basic Power BI.

INTERPERSONAL SKILLS:

- Flexibility and accountability
- Exceptional time management
- Collaboration and efficient communication