JORGE GAEL LÓPEZ FIGUERAS

Applied Mathematics

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PROFESSIONAL PROFILE

Mathematics student with solid programming training. Passionate about cybersecurity, with academic experience in vulnerability analysis, networks and cryptography, acquired through projects and university courses such as cryptography, Information Theory and Digital Security. Analytical skills developed through mathematical training, focused on problem solving in computer security and programming contexts.

EDUCATION

Bachelor's Degree in Algorithmic Mathematics   **Jan 2022 - Expected Graduation Jan 2026**

Escuela Superior de Física y Matemáticas - IPN   GPA: 9.4

Cybersecurity Club

Centro de Investigación en Computación   **Dec 2024 - Present**

PROJECTS

Research Assistant
Mexico City

Centro de Investigación en Computación (CIC - IPN)   **Oct 2024 – Mar. 2025**

- Development of cryptographic algorithms using C/C++(Linux, Windows).

Paper Presentation at the Future Technologies Conference (FTC) 2025   **Nov 6-7, 2025**
Munich, Germany

- Presented paper titled "A Modular Tool for Exploring ECDSA" at FTC 2025, demonstrating a Python-based modular implementation of ECDSA.

EXPERIENCE:

Internship at Comisión Nacional de Vivienda   **May 2025 – Aug 2025**
Mexico City

- Managed regulatory documents and operations manual, ensuring compliance with updated housing policies.
- Automated ETL/ELT pipelines, reducing data processing time by 30 %, and generated analytical reports used in strategic decision-making, using Python and Excel.

Web Development – Freelance   **May 2024 – Present**

- Developed websites independently for various clients, ensuring responsive and user-friendly designs.
- Utilized front-end technologies (HTML, CSS, JavaScript) and back-end frameworks (Python/Flask, Node.js) to deliver full-stack solutions.

TECHNICAL SKILLS:

Programming Languages: C/C++ (Intermediate), Python (Advanced), Bash (Intermediate)
Databases: SQL (MySQL, PostgreSQL), Excel (VBA, Macros)
Operating Systems: Linux and Windows
Cybersecurity: Nmap, Wireshark, Metasploit, traffic analysis, basic network configuration, TCP/IP

LANGUAGES

English B2   German A2

SOFT SKILLS

- Critical Thinking, Teamwork, Adaptability and Effective Communication

COURSES:

Fundamentals of Network Security
Centro de Investigación en Computación(CIC-IPN)   **Jun 2025 - Aug. 2025**