

# Miguel Duran Zamora

Computer Science (Cybersecurity) Graduate



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San Juan, PR

## PROFESSIONAL PROFILE

- Entry-level cybersecurity and full-stack developer with a Master of Computer Science in Cybersecurity and experience building and deploying secure web applications.
- Built secure MERN applications, applied Python machine learning for threat detection and data interpretation.
- Practical exposure to malware analysis, network telemetry, and feature engineering with production-style datasets.
- Fast learner with a clear, analytical approach and a bias for implementable improvements to security and UX.
- Comfortable creating RESTful APIs and working across the full stack to deliver stable, scalable solutions.
- Keeps up with new technologies and continues to refine skills through constant learning and practice.

## EDUCATION

### Master of Computer Science (Cybersecurity)

Polytechnic University of Puerto Rico – San Juan, PR | October 2025

### Bachelor of Computer Science

University of Puerto Rico – Bayamón | May 2023

## KEY SKILLS

**Programming:** Python, JavaScript, SQL, Java

**Web Development:** React, Node.js, Express.js, MongoDB, HTML, CSS, Tailwind, Next.js

**Cybersecurity:** Network Security, Digital Forensics, Malware Analysis, Sysmon, Virtual Machines, Machine Learning

**Tools:** Git, VS Code, Postman, Socket.IO

**Languages:** English, Spanish

## PERSONAL & UNIVERSITY PROJECTS

### Machine Learning for Ransomware Detection on Electronic Health Records

Master's Final Project / Research Article - [View Project](#)

- Built an isolated VM lab and safely ran ransomware samples; captured host activity with Sysmon to generate realistic traces.
- Wrote Python code to extract features and train models (Random Forest, SVC, KNN), automating the end-to-end pipeline.
- Tested event-based signals (process/file activity, timing, registry changes) and raised detection accuracy on held-out data.
- Documented the setup, code, and results in a practical article focused on early ransomware detection for EHR systems.

### ScriptLive – Collaborative Coding Platform

Bachelor's Final Project - [scriptliveio.netlify.app](#)

- Developed a full-stack web platform that allows users to collaborate in real time, combining live code editing with video and audio chat.
- Built end-to-end functionality using the MERN stack (MongoDB, Express, React, Node.js) and Socket.IO for seamless multi-user connectivity.
- Enhanced teamwork and user experience by integrating authentication, chat rooms, and synchronized code sessions in a responsive interface.
- Delivered a fully functional prototype demonstrating scalable architecture and effective real-time communication for developer collaboration.

### LUNIO Studios – Personal Portfolio & Freelance Projects

[www.luniostudios.com](#)

- Designed and deployed a professional portfolio website to showcase development, cybersecurity, and creative projects.
- Applied modern front-end principles to create a responsive, visually engaging, and performance-optimized layout.
- Managed end-to-end deployment, ensuring uptime, SEO visibility, and smooth user navigation across devices.

## WORK EXPERIENCE

### Cook & Cashier | Taco Maker – San Juan, PR (Aug 2018 – Nov 2018)

Developed strong teamwork, reliability, and time-management skills in a fast-paced environment.