

## EDUCATION

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- **Tecnológico de Monterrey** Monterrey, Mexico  
*Bachelor of Science - BS, Computer Science; GPA: 3.84*  
August 2021 - December 2025
- **Apple Developer Academy** Naples, Italy  
*University of Naples Federico II*  
September 2024 - June 2025
- **International Baccalaureate** Monclova, Mexico  
*Colegio María Montessori de Monclova; IBDP: 38/45*  
August 2019 - June 2021

## EXPERIENCE

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- **Software Engineer** Monterrey, Mexico  
*Innovaction Gym* January 2024 - Present  
Leading a software development team of three, building a web application for a **COIL platform** connecting **10+ universities**, and planned to have 1,000 users by the end of the first year.
  - **Business & DevOps:** Conducting **function point** analysis, creating **SRS** documents, and implementing agile project management methodologies.
  - **T3 Stack:** Developing a full-stack application using **Next.js** and **tRPC** in TypeScript, hosted on Vercel.
  - **Supabase:** Designing and implementing data models and object storage using Supabase and **PostgreSQL**.
- **Back End Developer** Monterrey, Mexico  
*RT Conducción Integral* April 2023 - August 2023  
Built the back end of an **IoT** application for Nuevo León's **water service company**, resulting in improved efficiency of water delivery for small businesses, and data analytics for administrators.
  - **Django Stack:** Utilized **Django REST Framework** in Python, Docker, PostgreSQL, and JWT authentication.
  - **REST Development:** Built & documented the API schema, conducted end-to-end tests with automated scripts.
  - **PEP8:** Ensured code quality by adhering to PEP8 standards.
- **Marketing Director** Monterrey, Mexico  
*Cybersecurity TEC* February 2023 - December 2023  
Official cybersecurity student group of Tec de Monterrey. Led **visual rebranding** efforts, resulting in improved brand recognition and a 97% increase in social media engagement throughout 2023.
  - **Graphic Design & Video Editing:** Created content using **DaVinci Resolve**, **Pixelmator Pro**, and **Affinity Designer**, reaching a diverse audience of cybersecurity enthusiasts.

## RECENT PROJECTS

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- **DEVOTION:** Developed a **Google**-integrated project management web application with **Angular & Django**, capable of tracking nested projects & tasks, aimed at elevating the ease of collaboration of student groups at Tec de Monterrey.
- **dominoes.mx:** Built an online domino game using **TypeScript & WebSocket** as a personal project with my father.
- **NOM NOM:** Designed an **iOS Hackathon** application to address food waste, facilitating sharing between users, retailers, and food banks. Technologies used include **SwiftUI**, **Django**, and **GDAL** geospatial data.
- **Vitalink:** Collaborated with doctors at Tec de Monterrey to develop an **iOS SwiftUI** application for logging patient symptoms, enabling a substantial improvement in the efficiency of healthcare data collection and analysis.
- **spotifyatlas:** Developed and published a Python **PYPI package** for seamless interaction with **Spotify's web API**, simplifying data retrieval and programmatic interaction with music.

## LICENSES & CERTIFICATIONS

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- **Cisco:** CCNA1 Introduction to Networks
- **Google:** IT Support Professional Certificate
- **Google:** Cybersecurity Professional Certificate
- **Global Lynx Mexico:** Network Defense Essentials

## PROGRAMMING SKILLS

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- **Languages:** Python, Swift, TypeScript, JavaScript, C++, C#, SQL, Matlab
- **Technologies:** Docker, AWS, Django, React, Angular, Unity, FFmpeg, Bash, Kali Linux, UTM, Cisco IOS, Arduino