

EMILIO CRUZ VARGAS

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Education

National Autonomous University of Mexico

Bachelor's Degree in Computer Engineering

Aug. 2021 – Expected Jul. 2026

Mexico City, Mexico

Relevant Coursework

- Data Structures and Algorithms I/II
- Complex Analysis
- Fourier Analysis
- Object Oriented Programming
- Automata Theory
- Data Networks
- Assembler Programming
- Artificial Intelligence
- Project Management
- Software Engineering
- Networking Fundamentals

Experience

iOS Development Lab

Intern

- Guide students in web and mobile app development using Swift.
- Focus on UI/UX design and app functionality.

Jan. 2025 – Present

Mexico City, Mexico

PwC

Future Ready - MSP - Guidewire - Intern

Aug. 2025 – Present

Mexico City, Mexico

CryptoBrunch LATAM

Ambassador

- Promote Web3 and cryptocurrency adoption through events and training in LATAM.
- Bridge the knowledge gap by sharing insights on blockchain technologies.

Oct. 2024 – Present

LATAM

Multimedia and Internet Laboratory

Software Engineer Intern

- Developed the client API for an online course platform at the UNAM Faculty of Engineering, utilizing Python for server integration and JavaScript for web development.

Aug 2024 – Dec 2024

Mexico City, Mexico

Projects

Cafeteria Management App | *Android Studio, PostgreSQL, Docker*

July 2023

- Developed an Android app for order management and customer interaction.
- Configured Docker and implemented cloud backups for remote access and data integrity.

Certifications

Diplomado en Desarrollo de Aplicaciones Móviles - Décima Generación

iOS Development Lab, Faculty of Engineering, UNAM

Aug. 2025 – Present

Mexico City, Mexico

- 240-hour program focusing on iOS app development using Swift, covering UI/UX, APIs, and App Store publication.
- Developing practical skills in Xcode and SwiftUI through hands-on projects.

Cybersecurity Diploma

Grupo Hub, CyberSecurity Association Council (CSASC)

Jan. 2025 – Jul. 2025

Mexico City, Mexico

- 49-hour program covering Ethical Hacking (Pentesting Level 1), Social Engineering, Cybersecurity Technician, and ISO 27001:2022 Fundamentals.
- Hands-on experience with tools like Kali Linux and Metasploit, and certification exams by CSASC.

CCNA Enterprise Certification Program

Cisco Networking Academy, Faculty of Engineering, UNAM

Aug. 2024 – Dec. 2025

Mexico City, Mexico

- Hands-on labs in network segmentation, server configuration (DHCP, DNS, web hosting), and troubleshooting using Cisco Packet Tracer and rack-mounted equipment.
- Designed secure and efficient network segments applying best practices.

IT Support Specialist Certification

Google, in association with Pro Meritum

Oct. 2021

Mexico City, Mexico

- 300-hour training in IT support, technical skills (via Coursera), and soft skills (via Pro Meritum).
- Focused on communication, teamwork, and problem-solving.

Technical Skills

Languages: L^AT_EX (5 years), C++ (4 years), Swift (1 year), Python (1 year), Java (1 year), C (1 year), HTML/CSS (2 year), JavaScript (1 year), Assembler (1 year), VHDL (1 year), PHP (5 months), SQL (5 months)
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Git, pgAdmin, Figma, Oracle Database 23c, Bash, PowerShell, Linux, Playground, Docker (1 year)
Technologies/Frameworks: React, Node.js, PostgreSQL, Docker (1 year), SwiftUI (Basic), Linux, GitHub
Languages Spoken: Spanish (Native), English (B2 - Proficient)
Soft Skills: Effective communication, Teamwork, Problem-solving, Time management

Leadership / Extracurricular

Coordinator of the "Competitive Programming Clinic"

Aug. 2022 – Present

Coordinator

Mexico City, Mexico

- Leads a project preparing students in programming topics for IEEEExtreme, covering algorithms, data structures, and problem-solving.

Competitive Programming Club, Faculty of Engineering

Jan. 2024 – Sep. 2024

Athlete

Mexico City, Mexico

- Trained for ICPC 2024, mastering advanced algorithms, data structures, and mathematical concepts.

IEEE UNAM, Computer Society

Aug. 2022 – May 2024

Vice President

Mexico City, Mexico

- Co-founded the student chapter, promoted member growth, led programming training initiatives, and organized IEEEExtreme 17.0 (in-person).

PumaHat Cybersecurity Team

Jul. 2022 – Jul. 2023

Member and Instructor

Mexico City, Mexico

- Specialized in information protection and trained new members through practical cybersecurity labs.

Awards

Changemakers Social Challenge - CSC 2025 (1st Place)

Oct. 2025

AI Challenge - UNAM Faculty of Engineering

Mexico City, Mexico

- Won first place by developing an innovative AI-powered solution to address challenges for the upcoming 2026 World Cup in Mexico.

NASA Space Apps Challenge 2025 (1st Place, Local Winner, Global Nominee)

Oct. 2025

Project "AirWay" - Mexico City Site

Mexico City, Mexico

- Achieved first place in the local competition by developing "AirWay," a solution using NASA's open data to solve a global challenge.

Hackathon Banorte 2023 (2nd Place)

Oct. 2024

AI Challenge with Financial Education

Mexico City, Mexico

- Developed an AI-driven solution to enhance financial education, focusing on personalized learning experiences.

NASA Space Apps 2023-2024, HackMexico 2024, ICPC 2024

Apr. 2023 - Mar. 2024

Participant

Global/Mexico

- Participated in global hackathons, solving challenges with open data, technological innovation, and algorithmic problems.

IEEEExtreme Editions 16.0, 17.0, 18.0

Oct. 2022 - Oct. 2024

Competitor

Mexico City, Mexico

- Ranked near the top 100 in Mexico in the IEEEExtreme programming marathon, solving complex algorithm and data structure problems.