José Emilio Sánchez Juárez

Website: emilio-j4n3z.github.io
Email: emilinho18@gmail.com
LinkedIn: linkedin.com/in/josé-emilio-sánchez
GitHub: github.com/Emilio-J4n3z

PROFESSIONAL SUMMARY

Cybersecurity enthusiast and AI/NLP researcher with hands-on experience in CTF competitions, vulnerability analysis, and machine learning applications. Currently conducting research at IIMAS UNAM on legal document text analysis. Passionate about democratizing technology through open source contributions and the creation of educational content.

EDUCATION

Tecnológico de Estudios Superiores de Cuautitlán Izcalli — State of Mexico
Computer Systems Engineering — September 2022 – Expected Dec 2026

- Current GPA: 91.7/100 • Focus: Cybersecurity, Machine Learning, and Natural Language Processing
- Relevant Coursework: Network Security, Software Engineering, Database Systems, AI Algorithms

FES Acatlán - Universidad Nacional Autónoma de México (UNAM) — State of Mexico
Applied Mathematics and Computer Science — 2020–2027

- GPA: 85.6/100 • Teaching Assistant in Computer Organization

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java, Bash, SQL
- **Database Management:** MySQL, PostgreSQL, SQL Server, Database Design
- **Cybersecurity:** Penetration Testing, CTF, Web Exploitation, SSTI, SQLi, Cryptography
- **AI/ML Frameworks:** scikit-learn, transformers, spaCy, NLTK, PyTorch
- **Web Technologies:** FastAPI, Alpine.js, HTML/CSS, RESTful APIs
- **Security Tools:** Nmap, Burp Suite, Metasploit, Wireshark, Docker
- **Platforms:** GNU/Linux, Windows, GitHub, GitLab
- **Documentation:** Hugo, Markdown, LaTeX, Technical Writing

LANGUAGES

- **Spanish:** Native
- **English:** Intermediate (B1 level)
- **Portuguese:** Basic (A2 level)

EXPERIENCE & KEY PROJECTS

Research Assistant - IIMAS UNAM — Mexico City
Instituto de Investigación en Matemáticas Aplicadas y en Sistemas — Current – Social Service

- • Developing text analysis modules for legal document processing using Python

- • Building visualization tools for legal sentence analysis with FastAPI and Alpine.js
- • Creating comprehensive documentation for developed NLP modules
- • Working with advanced NLP libraries for automated legal text processing

Research Assistant - CEDETEC LASC   State of Mexico
Laboratorio de Seguridad en Cómputo   Previous Experience

- • Conducted cybersecurity research and vulnerability analysis
- • Participated in security testing and penetration testing methodologies
- • Collaborated on security protocols and threat assessment projects

Cybersecurity Researcher & Content Creator   Remote
Independent Research & Community Contributor   April 2025 – Present

- • Active competitor in CTF platforms: PicoCTF, HackTheBox, TryHackMe, EchoCTF
- • Published 15+ detailed CTF writeups focused on web exploitation and cryptography
- • Specialized in Server-Side Template Injection (SSTI) and vulnerability analysis
- • Maintained multilingual technical blog with 1,500km+ cycling adventures

NLP & Machine Learning Projects   Open Source
AI Developer & Researcher   2023 – Present

- • Developed interactive web translator supporting multiple languages
- • Active participant in Indigenous Languages Challenge for linguistic preservation
- • Created ML-based vulnerability detection tools and OSINT automation
- • Built NLP security scanners for automated threat analysis

OffSec Community   Mexico City
Active Member & Mentor   March 2025 – Present

- • Mentor beginners in cybersecurity fundamentals and CTF methodologies
- • Teach intermediate concepts in web exploitation and cryptographic analysis
- • Participate in collaborative security research and knowledge sharing

GUAPA Competitive Programming Club   State of Mexico
Active Member & Competitor   September 2021 – Present

- • Participated in competitive programming contests and algorithmic challenges
- • Achieved 2nd place in competitive programming contest during M@C Academic Week
- • Collaborated with team members in problem-solving and algorithm optimization

Teaching & Speaking Experience

- **Teaching Assistant** - FES Acatlán UNAM   Winter 2021
  Computer Organization (Course 1111) - Supporting undergraduate students in computer architecture
- **NLP Workshop Instructor** - Beginners NLP Part 2   2024
  Assistant instructor covering Python, NLTK, spaCy, transformers • 50+ participants • Video: youtube.com/watch?v=DBzjvICII8k

- **Data Visualization Staff** - Summer School   2024
  Technical staff supporting scientific data visualization • 100+ participants • Video: youtu.be/_xIEXWe93ck
- **GPG Encryption Speaker** - FLISoL   2018
  Conference presentation on practical cryptography • Video: youtu.be/oZ8eHkTxE4c?t=25

Achievements & Recognition

- • **MeIA 2025 Certificate** - AI Macrotraining Program (UNAM)
- • **High Academic Performance:** GPA 91.7/100 (Current), 85.6/100 (UNAM)
- • **2nd Place** - Competitive Programming Contest, M@C Academic Week (2021)
- • Top performer in multiple CTF competitions with 15+ documented solutions
- • Team member of **white_void** CTF team (CTFtime registered)
- • **Teaching Assistant** at prestigious FES Acatlán UNAM
- • **Large-Scale Event Organization:** 500+ attendees (M@C Week), 150+ (FLISoL)
- • **Research Experience:** IIMAS UNAM & CEDETEC LASC laboratories
- • Active contributor to open-source security and NLP projects
- • Published technical content creator with focus on democratizing cybersecurity

Extracurricular Activities

- **Athletic Representative** - FES Acatlán UNAM   2023–2024
  Selected to represent prestigious FES Acatlán in CONDE football tournament and TESCI soccer competitions. Balanced competitive sports with academic excellence. Demonstrates: Institutional trust, team collaboration, time management.
- **Chess Team Strategist** - FES Acatlán   2023
  Member of institutional chess team developing advanced strategic thinking and analytical problem-solving skills. Discontinued due to prioritization of core academic and research commitments. Demonstrates: Strategic mindset, logical analysis, mature prioritization.
- **Competitive Cyclist & Cultural Explorer**   2020–Current
  Active competitive cyclist with extensive exploration across Mexican Republic. Combine physical endurance challenges with cultural discovery and geographical knowledge expansion. Demonstrates: Mental resilience, curiosity, adventure-driven learning.
- **Technical Content Creator & Cultural Bridge-Builder**   2023–Current
  Created multilingual technical blog exploring intersection of technology, human psychology, and adventure. Focus on democratizing cybersecurity knowledge and fostering cross-cultural tech communication. Demonstrates: Communication excellence, cultural intelligence, humanistic technology vision.

Leadership & Personality Profile

- • **Performance-Driven:** 2nd place achievement in competitive programming showcases winning mentality and ability to deliver results under pressure
- • **Institutional Confidence:** Selected to represent FES Acatlán UNAM in competitive sports demonstrates institutional trust and professional representation capabilities
- • **Strategic Analyst:** Chess team experience and competitive programming success highlight advanced strategic thinking and systematic problem-solving approach
- • **Mental Resilience:** Competitive cycling across Mexico demonstrates exceptional mental endurance, physical discipline, and challenge-seeking mindset

- • **Cultural Intelligence:** Multilingual blog creation and cross-cultural technology focus showcase advanced communication skills and humanistic approach to technology
- • **Strategic Prioritization:** Ability to balance multiple high-level commitments while maintaining academic excellence (GPAs 91.7 & 85.6) demonstrates superior time management

PROFESSIONAL DEVELOPMENT & TRAINING

- **MeIA 2025 - Artificial Intelligence Macrotraining**   June 2-20, 2025
  UNAM Intensive AI Training Program - Certificate of Completion
- **AI Ethics in Society Workshop**   2024
  UNAM Ethics in AI Program - Responsible AI development practices
- **Seminario de Deep Learning**   2023
  Based on NYU course by Yann LeCun - Advanced ML concepts and applications

EVENT ORGANIZATION & LEADERSHIP

- **FLISoL Organizer & Coordinator** - Rancho Electrónico   April 2021
  Coordinated free software installation events, workshops • 150+ attendees
- **FLISoL Organizer & Coordinator** - FES Acatlán UNAM   April 2020
  Sponsor research, workshop coordination, speaker invitation • 150+ participants
- **Organizing Committee** - XVI Academic Week of Applied Mathematics and Computation   September 2020
  FES Acatlán UNAM - Sponsor research, speaker recruitment • 500+ attendees

RESEARCH INTERESTS & FUTURE GOALS

- • **ML Security:** Intersection of machine learning and cybersecurity
- • **NLP for Social Good:** Indigenous language preservation and accessibility
- • **Ethical Hacking:** Automated vulnerability detection and analysis
- • **Open Source:** Democratizing cybersecurity education and tools
- • **Community Building:** Bridging technology with human stories and adventures

ADDITIONAL INFORMATION

- • **Philosophy:** "Technology is most powerful when connected to our deepest human passions"
- • **Unique Approach:** Combines technical expertise with storytelling and adventure
- • **Community Focus:** Committed to knowledge sharing and mentoring in LATAM tech community
- • **Cross-disciplinary:** Integrates cycling philosophy with technical problem-solving