

ADRIAN BELTRAN

Computer Engineer & Software Programming Technician

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PROFESSIONAL SUMMARY

Passionate software developer with 7 years of practical coding experience since the age of 16. Candidate for a Bachelor of Science in Computer Engineering at UAM Azcapotzalco, built upon a solid vocational foundation as a certified Software Programming Technician. Highly skilled in backend development, data structures, and secure cloud operations. Proven track record of successful collaboration within agile development teams on complex technical integration projects. Fully bilingual with advanced communication skills certified at the C1.1 level.

EDUCATION

B.S. in Computer Engineering (Graduation Candidate) 2022 – Present
Universidad Autónoma Metropolitana (UAM Azcapotzalco)

- Currently finishing the final academic period. Expected Graduation: December 2026.
- Strong emphasis on systems engineering, computer networks, advanced algorithms, and data structures.

Technical Degree in Software Programming 2019 – 2022
CECyT 9 “Juan de Dios Bátiz” – Instituto Politécnico Nacional (IPN)

- Acquired a rigorous early technical foundation in object-oriented programming, logical system design, and databases.
- Graduated with full technical certification.

TECHNICAL PROJECTS & HIGHLIGHTS

SDN University Integration Project (Lead Developer) 2026
UAM Azcapotzalco

- Designed and built a complex Software-Defined Network (SDN) topology to perform a rigorous comparative analysis between RSTP and OSPF routing protocols.
- Emulated production university network workloads using **Mininet** and customized automation logic scripted in **Python**.

Algorithmic Optimization & Analysis Ongoing
Personal Technical Log

- Consistently refactoring complex data structure challenges on LeetCode to achieve optimal execution speeds.
- Successfully optimized complex code blocks, reducing computational time complexity from $\mathcal{O}(N^2)$ down to linear time $\mathcal{O}(N)$ through the precise implementation of Hash Maps and efficient memory structures.

Secure Serverless Cloud Deployment 2026
Infrastructure Log

- Migrated personal portfolio infrastructure and production web environment to a high-availability architecture on **Cloudflare Pages**.
- Configured robust edge security policies and automated traffic filtering using Cloudflare’s Web Application Firewall (**WAF**).

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript (JS)
Databases: PostgreSQL, MySQL
Tools & Cloud: Git, Cloudflare, Web Application Firewall (WAF), Mininet, SDN Topologies, Linux

LANGUAGES & CERTIFICATIONS

- **English:** Advanced Level C1.1 – Certified by **goFluent** (Full professional proficiency, capable of working seamlessly with cross-border engineering teams).

- **Spanish:** Native speaker.