

# CARLOS ALBERTO ZAMUDIO VELÁZQUEZ

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## EDUCATION

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### Tecnológico de Monterrey

B.S. in Computer Science and Technology

QS World Ranking: 72nd best university for Engineering & Technology

August 2022 - Expected June 2026

GPA: 95.77/100 (US GPA - 4.0)

## EXPERIENCE

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### Full Stack Mobile Developer, Zazil

July 2024 - October 2024

- Architected and deployed an e-commerce platform with seamless mobile-to-backend integration
- Implemented AI-powered chatbot, shopping cart functionality, and secure user authentication
- Orchestrated real-time inventory synchronization between mobile client and backend using WebSockets

### Software Developer, Verqor

February 2024 - May 2024

- Spearheaded development of high-performance gaming mechanics optimizing user experience
- Designed and deployed a scalable analytics dashboard with real-time visualization capabilities
- Optimized database queries and implemented caching strategies for critical user interactions

### Platform Developer, HackMX 6

July 2024

- Engineered a fault-tolerant competition platform supporting concurrent participant interactions
- Architected secure project submission pipeline with automated validation workflows

## TECHNICAL SKILLS

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**Programming Languages:** Rust, Go, Python, C/C++, JavaScript/TypeScript, Dart

**Infrastructure:** Docker, Kubernetes, Nix, Terraform, CI/CD, Microservices

**Databases:** PostgreSQL, MongoDB, DuckDB, Redis

**Technologies:** RESTful APIs, GraphQL, Kafka, Nginx

## ACHIEVEMENTS

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### First Place in Cybersecurity Tec Zero2Hero2024

June 2024

- Secured first place by exploiting zero-day vulnerabilities and implementing advanced penetration testing
- Developed custom security scanning tools for comprehensive vulnerability assessment
- Presented technical findings to panel of industry security experts

### Second Place at HackMX 5, Ciudad de México

October 2023

- Architected an NLP-powered automotive search engine with advanced query interpretation
- Engineered custom transformer models for semantic understanding of automotive specifications
- Implemented parallel processing pipeline optimizing complex search operations

## ADDITIONAL INFORMATION

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**Languages:** Spanish (Native), English (B2)

**Soft Skills:** Team Leadership, Technical Communication, Problem-Solving, Proactiveness

**Areas of Interest:** Distributed Systems, High-Performance Computing, Machine Learning, Security