

Carlos Alberto Lara Hernandez

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Education

Autonomous University of the State of Hidalgo (UAEH)

Mexico

B.S. IN COMPUTER SCIENCE

Jul. 2022 - Present

- **Expected graduation date:** December 2026.
- **GPA:** 91 out of 100.
- **Varsity Student-Athlete (Volleyball):** Selected to represent the university at CONDDE, the highest collegiate competitive division in Mexico.

CBTis 83

Hidalgo, Mexico

TECHNICAL DEGREE IN COMPUTER EQUIPMENT SUPPORT AND MAINTENANCE

Aug. 2019 - Jul. 2022

- State-Issued Professional License as an IT Technician.

Experience And Leadership

clearway.com.mx

Mexico

SOFTWARE ENGINEER INTERN

Dec. 2025 - Present

- Reduced annual server operational costs by 93%, by executing a manual hosting migration, hardening DNS security, and expanding storage and email capacities.
- Elevated brand presentation and organic search visibility, achieving the #1 ranking on Google search results, by engineering a custom professional **website** from scratch with technical SEO (metadata, bot readability) and utilizing Git/GitHub for version control.
- Accelerated daily administrative and billing workflows, reducing task completion time from a full workday to approximately 3 hours (a 62% reduction), by configuring B2B invoicing, SMTP email servers, and social media API integrations within Odoo environments.

Competitive Programming Club (CPC) - UAEH

Hidalgo, Mexico

INSTRUCTOR AND CLUB ORGANIZER

Oct. 2022 - Present

- Serve as lead instructor for the university's programming club, managing and fostering a technical community of over 200 active members.
- Design and deliver comprehensive training sessions focused on advanced data structures, algorithms, and complex problem-solving strategies.
- Mentor and prepare students for high-stakes programming competitions, including the "ICPC Mexico Grand Prix" and regional hackathons.

Projects

2026	Lisorevah League Management System , Streamlined tournament scheduling and team management for 12 teams and 120+ players, reducing manual administrative tasks by 90%, by building a custom full-stack web application using PHP, MySQL, and HTML/CSS/JS.	Mexico
2025	Flutter Tutorial & Flutter Bot , Enhanced interactive learning experiences for over 50 test users with an AI response time under 1 second, by engineering an educational mobile app utilizing Flutter, Firebase, and a local Phi model integrated via REST API.	Mexico
2025	Airplane Hangar Management System , Optimized hangar inventory tracking, seamlessly managing over 2,000 simulated records without performance degradation, by architecting a layered full-stack CRUD application using Spring Boot, MySQL, and JavaFX.	Mexico
2025	Residential Demographics Management System , Improved the organization of complex household data, efficiently processing over 2,000 simulated property records, by developing an object-oriented desktop system utilizing JavaFX and ObjectDB.	Mexico
2025	Caspar David Friedrich Virtual Museum , Awarded 1st Place at the EXPOCET UAEH VR contest, outperforming approximately 40 competing teams, by developing an immersive 3D virtual museum in Unity integrated with Vuforia (AR) and AI text-to-speech.	Mexico

Awards

2025	Finalist, The 2025 ICPC Mexico Finals: rank: 52 out of 140, Honorable Mention.	Jalisco, Mexico
2024	Finalist, The 2024 ICPC Mexico Finals: rank: 84 out of 120, Honorable Mention.	Monterrey, Mexico
2025	Finalist, The 2025 ICPC Mexico Grand Prix: rank: 49 out of 531, Honorable Mention.	Mexico
2025	Finalist, The 2025 Code Rush Tec Puebla: rank: 11 out of 33, Honorable Mention.	Puebla, Mexico
2025	1st Place, XPOCET UAEH Nov: The Best VR Project	Hidalgo, Mexico
2025	2nd Place, XPOCET UAEH Apr: Hackathon	Hidalgo, Mexico
2026	2nd Place, Winter Coding Cup (ITM Morelia)	Michoacán., Mexico

Skills

Programming Languages

Java, C, C++, Dart, Python, PHP, C#, SQL, HTML, CSS, JavaScript, TypeScript

Technologies

Git, Spring Boot, Flutter, JavaFX, MySQL, PostgreSQL, H2 Database, ObjectDB, JPA, Firebase, Docker, React, Angular

Spoken Languages

Spanish (Native), English (B2)