

Cesar Gonzalez Lopez

Software Engineering

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EDUCATION

Software Engineering, *Universidad veracruzana*

2025 | Xalapa, Veracruz

PROFESSIONAL EXPERIENCE

Intern – Eminus 4 Platform, *Universidad Veracruzana (UV)*

08/2025 – Present | Veracruz, Mexico

- Optimized the performance of a high-concurrency educational platform (ASP.NET & SQL Server) by designing and implementing caching strategies, ensuring a seamless experience for thousands of users.
- Conducted cost-benefit analysis for implementing cloud-based caching solutions on Azure and used Grafana to monitor and report on key performance and latency metrics.
- Collaborated within an agile team of developers and DBAs to plan, develop, and deploy new functionalities for the institutional software.
- Authored comprehensive technical documentation and test plans to ensure code quality and maintainability in compliance with departmental standards.

PROJECTS


API GraphQL for D.Tentacion (v2) 

08/2024 – 01/2025

- Developed the second version of the API for D.Tentacion, transitioning from REST to GraphQL, using Node.js, TypeScript, and Apollo Server, ensuring more flexible and efficient data retrieval.
- Optimized API performance by integrating Azure Redis Cache, reducing database load and improving response times.
- Streamlined data retrieval processes by implementing an advanced caching mechanism to manage 30% more concurrent users, resulting in faster response times and enhanced overall user experience across the platform.

SpiderWatcher 

01/2024 – 05/2024

- Developed a comprehensive video streaming platform utilizing REST API architecture with .NET 8, ASP.NET , SQL Server, and Clean Architecture principles.
- Established a reliable hosting environment using Azure App Service, resulting in a 99.9% uptime; also integrated Azure Email Service, enhancing automated notifications to boost user retention by improving engagement.
- Integrated user registration, video viewing, and viewing history capabilities into a cohesive platform, now adopted by over 1,000 active users, optimizing overall performance and satisfaction.

SGDC UV 

08/2023 – 12/2023

- Engineered and implemented an automated system for certificate generation that saved the administrative department 200 hours annually by eliminating manual processes.
- Utilized C#, SQL Server, and MVC framework to ensure efficient and accurate certificate generation, reducing manual workload by 60%.




VOLUNTEERING

Microsoft Learn Student Ambassadors, *Studen Ambassador - BETA*

07/2023 – present

- Led the integration of new ambassadors into the program, fostering a welcoming environment and increasing member retention by 15%.
- Spearheaded teams in organizing and conducting conferences on Microsoft technologies, enhancing community engagement by 20%.
- Leveraged Azure cloud services to various projects, achieving a 25% improvement in project delivery times and promoting innovation.

CERTIFICATES

- Redis for JavaScript developers 
- Microsoft Certified: Azure Fundamentals 
- Git y GitHub: controle y comparta su código 
- Productividad: Estrategias para actividades diarias 