

# CESAR GARZA

*Software Engineer*

## PROFESSIONAL SUMMARY

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**Innovative Lead Engineer and Full-Stack Web Developer** with over 3 years of comprehensive experience in designing and implementing scalable web applications and data-driven solutions. Expertise in a diverse array of technologies, including React, Angular, FastAPI, ASP.NET, Python, and cloud services such as AWS and Azure. Proven ability to lead cross-functional teams, manage complex projects, and adapt to emerging technologies in dynamic environments. Strong background in data collection, analysis, and automation, with a focus on improving operational efficiency and user experience. Actively seeking a challenging web developer position to leverage my technical skills and cloud expertise in delivering impactful and innovative solutions.

## EMPLOYMENT HISTORY

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### FULL-STACK DEVELOPER

*Neuronix*

**Jul 2023 - Present**

*Monterrey, N.L., Mx.*

- **Frontend Development:** Skilled in creating responsive and interactive user interfaces using Angular and Next.js, focusing on clean, maintainable code and seamless user experiences.
- **Backend and API Development:** Proficient in building robust backends with FastAPI and Django, implementing RESTful APIs, and integrating third-party services such as OpenAI and Zoom.
- **Data Integration and Automation:** Experienced in developing Python-based schedulers for automated data collection and analysis, optimizing processes like catalog updates and probability training.
- **Cloud Infrastructure and Deployment:** Adept at managing cloud services, primarily with DigitalOcean droplets and AWS S3, to ensure high-performance and scalable solutions.
- **Version Control and CI/CD:** Used GitLab for collaborative version control and implemented CI/CD pipelines, enhancing project management efficiency and code reliability.
- **Data Analytics and Reporting:** Familiar with incorporating statistical parameters and socio-demographic insights for personalized recommendations and data-driven decision-making.

### LEAD ENGINEER/FULL STACK DEVELOPER

*Arca Continental*

**Nov 2022 - Dec 2023**

*Monterrey, N.L., Mx.*

- **Technology and Architecture Selection:** Led the selection of technology stacks for IoT solutions, including architectural planning for both web applications and hardware integration, ensuring optimal performance and scalability.
- **Frontend Development with React:** Built responsive and user-centric interfaces, prioritizing seamless interactions for IoT applications.
- **Backend Microservices Architecture:** Supervised the backend development team in implementing a microservices architecture using Java Spring, promoting modularity and reliability across services.
- **Azure Cloud Configuration and Deployment:** Configured Azure environments to host IoT services, managing cloud resources, and deploying frontend applications. Set up backend environments for streamlined deployment readiness.
- **Cross-functional Collaboration:** Coordinated with developers, engineers, and other stakeholders to deliver cohesive and efficient IoT solutions, enhancing collaboration and alignment across teams.

### SOFTWARE ENGINEERING AND DATA SCIENCE ASSISTANT

*Faculty of Economics, UANL*

**Jul 2022 - Jul 2023**

*Monterrey, N.L., Mx.*

- **Full-Stack Development for Inventory Management:** Developed a cloud-based inventory control platform using React for the frontend and ASP.NET for the backend, hosted on Azure, which streamlined annual inventory processes and eliminated manual data entry tasks.
- **Data Collection and Analysis for Mobility Research:** Enhanced geographic data collection and cleaning processes using Python and ArcGIS, improving the quality and accessibility of datasets for transportation route analysis.
- **Web Hosting and Infrastructure Management:** Configured and maintained university hosting environments using cPanel on Hostinger, including software deployment and administration. Adapted PHP-based applications to meet specific faculty requirements and ensure seamless integration with university permissions.
- **Process Automation and Efficiency:** Achieved substantial improvements in data collection efficiency and inventory management automation, reducing manual workload and supporting data-driven decision-making.

**AUGMENTED REALITY DEVELOPER INTERN**  
*CII.IA*

Dec 2021 - Jun 2022  
Monterrey, N.L., Mx.

- **Augmented Reality (AR) Development and Research:** Conducted in-depth research on AR application development for Microsoft HoloLens, utilizing Unity and .NET to create functional prototypes and models.
- **Environment Mapping and Hardware Configuration:** Configured HoloLens hardware to develop an application with spatial mapping capabilities, enhancing understanding of AR environment interactions.

**FREELANCE DEVELOPER AND CONSULTANT**  
*Freelance*

Jan 2020 - Dec 2021  
Mx.

- **Full-Stack Web Development:** Developed a promotional management application for a client, using Angular for the frontend and FastAPI for the backend, enabling efficient tracking and updating of promotions.
- **Custom WordPress Development:** Created a landing page in WordPress for a construction company in Peru, optimizing design and functionality to enhance client engagement and brand visibility.
- **Raffle Management with WordPress:** Built a custom WordPress site for managing raffles, tailored to support specific client needs and streamline processes.
- **Shopify E-commerce Customization:** Developed a tailored Shopify store for a photography merchandise business, enhancing user experience and optimizing for sales.
- **School Payment Administration Tool:** Developed an administrative tool using .NET for managing school payments, facilitating tracking and reporting of payment records.
- **Data Automation and Web Scraping:** Conducted data scraping projects with Python, automating data collection and analysis for various applications.

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**EDUCATION**

**BACHELOR IN ENGINEERING**  
*Universidad Autonoma de Nuevo Leon*

Jul 2018 - Jul 2023  
Monterrey, N.L., MX

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**COURSES**

**AZ-900: MICROSOFT AZURE FUNDAMENTALS**  
*Microsoft*

2022

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**SKILLS**

HTML5, JavaScript, Python, .NET, AWS, Azure, Git, Django, Next.js, FastAPI, Angular, WordPress, PHP, Java, C#, React, Spring, ASP.NET, Node.js, MySQL, MongoDB, SQL, PostgreSQL, Data Visualization, Pandas, Numpy, IoT Solutions, DevOps Practices.

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**LINKS**

LinkedIn: [www.linkedin.com](http://www.linkedin.com), GitHub: [github.com](http://github.com).

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**ADDITIONAL INFORMATION**

**ONGOING FORMATION**

*AWS Certified Solutions Architect - Associate*

Currently preparing for the AWS Solutions Architect – Associate certification to deepen knowledge in AWS cloud architecture and enhance skills in designing and deploying scalable, high-performance systems.

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**LANGUAGES**

Spanish (*Native*), English (*Highly proficient*), French (*Novice*).

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**HOBBIES**

- ♦ **Music:** Enjoy playing instruments such as the guitar and piano, and experimenting with various music creation tools to produce original compositions.
- ♦ **Technology:** Passionate about building computers, exploring hardware configurations, and enhancing performance through custom setups.