

GUSTAVO DE JESUS BARRIENTOS

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PROFESSIONAL SUMMARY

Senior Software Engineer with over 15 years of experience in backend development using the Microsoft .NET stack. Specialized in designing and implementing scalable, high-performance backend solutions with C#, .NET Core, and SQL Server. Extensive experience in API development, microservices architecture, cloud computing (Azure), and DevOps practices. Strong skills in database modeling, system integration, and performance optimization. Experienced in building intelligent applications and integrating AI tools and LLMs using platforms like Azure AI, PromptFlow, Semantic Kernel, and development assistants such as GitHub Copilot, Claude Code, and Gemini CLI.

PROFESSIONAL EXPERIENCE

Sr. Software Engineer | Contractor

2021 - 2024

- Lead the design and development of multiple backend services using .NET Core, Web API, and Entity Framework with SQL Server, ensuring scalability and maintainability.
- Developed robust RESTful APIs and microservices architectures to support high-traffic applications.
- Implemented advanced database optimization techniques, including indexing and query refactoring, to improve system performance and efficiency.
- Managed cloud-based infrastructure on Azure, utilizing CosmosDB, Azure SQL Server, Service Bus, Blob Storage, and AKS for distributed computing.
- Designed and maintained CI/CD pipelines in Azure DevOps, improving development workflow and reducing deployment time.
- Integrated PromptFlow, Semantic Kernel, and Azure AI Search to build intelligent, context-aware applications powered by LLMs and retrieval-augmented generation (RAG).
- Leveraged AI-powered coding assistants such as GitHub Copilot, Gemini CLI, and Claude Code to accelerate development, enhance code quality, and boost productivity.

Sr. Backend Developer | EPAM

2022 - 2023

- Built and optimized backend services for mobile applications using .NET and Node.js, ensuring seamless cross-platform integration.
- React/React Native development.
- Lead API integration efforts with third-party systems, improving system interoperability and data exchange.
- Conducted performance analysis and refactored codebases to improve application response time and reduce memory usage.

.NET Architect | Globant

2021 - 2022

- Designed scalable backend architectures for mobile and web applications, integrating third-party SDKs and native modules into .NET services.
- Developed enterprise-grade APIs using .NET Core and Entity Framework to support real-time data processing.
- Provided technical leadership in migrating legacy systems to modern cloud-based architectures.

Tech Lead | Softtek

2018 - 2021

- Managed backend development teams to deliver large-scale enterprise applications with .NET Core, SQL Server, and Azure Functions.
- ReactJs development, Redux.
- Spearheaded API development and integration projects, ensuring seamless data communication across multiple platforms.
- Designed and implemented DevOps solutions using Jenkins, SonarQube, and Selenium to automate testing and deployment.

Backend Developer | Definity First

2016 - 2017

- Developed RESTful APIs and backend services using C#, ASP.NET MVC, Web API, and SQL Server.
- Integrated RabbitMQ messaging system for asynchronous processing and improved system reliability.
- Worked on optimizing database queries to enhance application performance and reduce load times.

Sr. Software Engineer | Softtek

2015 - 2016

- Led the backend development of enterprise applications using ASP.NET, SQL Server, and Entity Framework.
- Designed efficient database schemas to support large-scale data processing.
- Provided technical mentorship and code reviews to junior developers.

Backend Developer | OXXO

2014 - 2015

- Developed and maintained backend services for POS systems, ensuring seamless transaction processing across multiple retail locations.
- Optimized WPF applications by improving backend data retrieval and caching mechanisms.
- Implemented security best practices for handling sensitive payment information.

Software Engineer | Softtek

2013 - 2014

- Developed enterprise backend solutions for business applications using C#, ASP.NET, Kendo UI, Bootstrap, and SQL Server.
- Led large-scale system integration projects to connect disparate business systems.
- Enhanced backend performance by implementing stored procedures and query optimizations.

Software Engineer | HCL Technologies

2012 - 2013

- Designed and implemented backend services using C#, ASP.NET, WPF, WCF, and SQL Server 2008.
- Developed Windows Phone 7 and Windows 8 applications, ensuring seamless integration with backend services.
- Conducted debugging and performance analysis to improve system reliability.

Software Engineer | TAE IT

2011 - 2012

- Developed a company invoice system using ASP.NET MVC 3, Entity Framework, and Reporting Services to automate invoicing and financial reporting.
- Maintained and improved an ASP.NET ASMX Web Service for business process automation.
- Designed and optimized database tables for improved query performance.

Freelance Backend Developer | Acid Studios

2010 - 2019

- Developed scalable backend solutions for web and mobile applications using .NET Core, ASP.NET MVC, and SQL Server.
- Designed and deployed REST APIs to facilitate seamless data exchange between applications.
- Created and maintained open-source backend projects on GitHub, contributing to the developer community.

Jr. Developer | IIDEA Solutions

2008 - 2010

- Participated in the development of various web and desktop applications using ASP.NET, WinForms, Infragistics Controls, and SQL Server.
- Assisted in database design and implementation for business applications.
- Provided technical support and maintenance for existing applications.

Developer/Tester | Indra

2007 - 2008

- Contributed to the development of FEMSA Investments project using ASP.NET WebForms, C#, and SQL Server 2005.
- Conducted software testing and quality assurance, identifying and resolving system defects.
- Assisted in the development of database queries and stored procedures.

EDUCATION

- **Universidad Tecmilenio** – Software Engineering (2009)
 - **Universidad Tecmilenio** – Master's in IT (Incomplete)
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TECHNICAL SKILLS

Backend Development:

- .NET Core, C#, ASP.NET, Web API, Microservices, RESTful APIs, Entity Framework, Python

Frontend Development:

- Angular, NGRX, React, Redux, React Hooks, React Native

Cloud & DevOps:

- Azure (CosmosDB, Azure SQL, Service Bus, Blob Storage, AKS, DevOps Pipelines, Azure AI Foundry)
- CI/CD, Azure DevOps, Docker, Kubernetes

Databases:

- SQL Server, CosmosDB, MySQL, PostgreSQL, NoSQL databases

System Integration:

- API development, third-party integrations, message queues (RabbitMQ, Kafka)

Tools & Editors:

- Visual Studio, VS Code, Rider, Postman, Docker, Kubernetes

AI Tools:

- Lovable
- Github Copilot
- Gemini CLI
- Claude Code
- Cursor
- Windsurf

Operating Systems:

- Windows, macOS, Linux

CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals (AZ-900):** Validates foundational knowledge of cloud services and how those services are provided with Microsoft Azure. Demonstrates understanding of cloud concepts, core Azure services, Azure pricing and support, and basic cloud security and governance.
- **Microsoft Certified: Azure AI Engineer Associate (AI-102):** Demonstrates expertise in designing, building, managing, and deploying AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework.

LANGUAGES

- Spanish (Native)
- English (Advanced)