



# Klaus Barkhausen


Enterprise Software Architect


Full Stack Developer


AI Integration Specialist in .NET Solutions


Miami, Florida


## Contact Info

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## Expertise

.NET | C# | AI | APIs

Docker | Azure

JavaScript | Design Patterns

Cloud Architectures | TDD

Microservices | OAuth

Enterprise architect with 26+ years of expertise building cloud-native solutions and leading development teams. 10+ years specialized in micro-frontends and cloud architecture. Proven track record of elevating codebases and engineering practices while delivering complex solutions for enterprise clients. Equally effective as a team leader or individual contributor.

### CLOUD ARCHITECTURE, SECURITY, AND NEW TECHNOLOGIES

I bring extensive expertise in multiple cloud platforms, with deep experience in Microsoft Azure and proven capabilities in AWS. I architect enterprise solutions leveraging Azure's comprehensive stack and developed proof-of-concept applications in AWS, demonstrating versatility across cloud technologies. My technical foundation includes mastery of the Microsoft .NET framework ecosystem, microservices architecture, and modern authentication protocols including OAuth 2.0. I can design and implement secure, scalable solutions integrating cloud-native services across any cloud-hosting platform.

### AI INNOVATION AND INTEGRATION

Experienced in AI via advanced prompt engineering to accelerate development and enhance code quality. Expertise using Semantic Kernel, enabling organizations to develop innovative AI-powered applications.

### SOFTWARE ARCHITECTURE

16+ years architecting enterprise solutions, specializing in microservices transformation and domain-driven design (DDD). Expert in n-tier architectures, design patterns, dependency injection, and automated testing. Proven track record implementing scalable web APIs and distributed storage solutions.

### SOFTWARE DEVELOPMENT

22+ years of experience architecting/developing across industries, including major retail and e-commerce solutions for brands like Cartier and Ritz-Carlton. Expertise in implementing C# e-commerce platforms with integrations for inventory, order management, etc. Experience integrating payment systems like PayPal, and others. Consistently recognized for delivering high-impact solutions.

### DEVELOPMENT PROCESS

Educated in TDD (Test Driven Development). Skilled in CI/CD with GIT.

### WEB AND MOBILE PLATFORMS

20+ years creating rich and responsive apps architected w/ ASP.NET NET Core MVC/API backends with RESTful APIs for front ends like VueJs or mobile apps.

### ENTERPRISE DATA ARCHITECT

20+ years of architecting/optimizing data solutions across SQL Server, Neo4j, and Elasticsearch platforms. Expert in high-performance data models and operations with proven track record of designing and improving scalable data architectures.

### PROJECT MANAGEMENT, LEADERSHIP, AND CUSTOMER-FACING EXPERIENCE

18+ years of experience in leading projects with small and medium-sized teams. 20+ years in customer-facing roles working with users and management.

**EDUCATION** Nova Southeastern University, Miami, FL  
*Bachelor's Degree in Business Administration*

**LANGUAGES** English and Spanish – fluent in both languages



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#### WORK EXPERIENCE / NOTEWORTHY ACCOMPLISHMENTS

**Apr. 2014 to Present**      ***.NET Architect / Cloud and TDD evangelist***

ANTHOLOGY, Boca Raton, Florida

I have developed numerous C# .NET solutions to address business requirements, and I provide architectural guidance on most major new features or improvements needed to existing C# solutions. I am the lead evangelist on architecting loosely coupled .NET solutions with unit testing. I provide training to all teams in TDD techniques, API standards and other complex .NET topics. I am responsible for tackling advanced-level technical issues and requirements that may be blocking our development efforts.

**Apr. 2013 to Apr. 2014**      ***Sr. Solution Architect & Team Leader***

AVISENA, Miami, Florida

Migrated the company solution into MVC4 while re-architecting its entire data access layer; these changes lowered complexity, added unit-of-work and repository patterns, and improved productivity. Implemented an SOA architecture to improve scalability. Trained the developers on TDD and SOLID principles (which dramatically improved code quality) and performed code reviews.

**Mar. 2006 to Apr. 2013**      ***Software Development Consultant***

(Self-employed), Miami, Florida

Worked independently as a contractor on projects that required senior-level experience. I generated my leads, contacted customers, and offered solutions to improve their business operations. I was responsible for all aspects of a project (prototyping, ROI, timelines, architecting, coding) and reporting results to top management. I developed successful projects for: Cartier, Aflac, Ritz Carlton, McAfee, and many more.

**May 2004 to Mar. 2006**      ***Regional I.T. Manager / Sr. Programmer***

RICHEMONT LATIN AMERICA & CARIBBEAN LLC, Miami, Florida

I administrated and managed the entire I.T. operations for Latin America and the Caribbean region. I managed a development team as both a programmer and project manager in all software projects.

**Sept. 2000 to May 2004**      ***Sr. Programmer / Project Manager***

DIGITALERA GROUP LLC, Miami, Florida

Conceived, architected, and created a B2B solution for Cartier Latin America to automate their retail operations throughout the region. I gathered requirements, wrote specifications, designed the UI, and created the data models. I managed an offshore team to lower costs. I performed code reviews and QA.

**Jan. 2000 to Sept. 2000**      ***Sr. Programmer / Project Manager***

TRAPEZOID INC., Miami, Florida

I was the lead architect for all software projects and all team members (including offshore teams). Architected and developed various software solutions for numerous start-up organizations and for mid-to-large organizations to improve their operations.

**Sept. 1998 to Dec. 1999**      ***Sr. Programmer / Oracle DBA***

CHS ELECTRONICS INC., Miami, Florida

I was a senior member of a team that created an Internet E-Commerce solution to serve an existing customer base (4,000+ customers). We developed an extremely successful self-service web-portal which ended up cutting operations costs by more than 60% on almost all customer service activities.