

RJ Hollberg

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Summary

Software Architect and technical leader with 25+ years of hands-on experience designing and delivering products, including enterprise-scale distributed systems. Currently leading AI initiatives, including architecting a production ChatGPT clone and enabling natural language interfaces over an enterprise data warehouse.

- **Architecture Focus:** DDD, event-driven microservices, and clean code principles
- **Microsoft Stack Expert:** Deep expertise in .NET ecosystem since 1.0, Azure, and cloud-native patterns
- **Full SDLC Experience:** R&D, agile, development, testing, CI/CD, infrastructure, and DevOps
- **Force Multiplier:** Passionate about mentoring developers, establishing best practices, elevating team capabilities, and producing high-quality output

Skills

Domain	Technologies & Expertise
Architecture	DDD, Bounded Contexts, Event-Driven, Microservices, CQRS, Clean/Explicit Architecture
AI & ML	LLMs, RAG, Semantic Kernel, Prompt Engineering, AI Agents, Vector Search, Azure OpenAI
Languages	C#, SQL, just enough HTML/CSS/JS/TS to be dangerous
Cloud & Infra	Azure (AppServices, CosmosDB, EventHubs, OpenAI, ServiceBus), Terraform, Docker, CI/CD
Data	SQL Server, CosmosDB, MongoDB, PostgreSQL, Event Sourcing
Practices	TDD, Refactoring, Code Review, Pair Programming, Technical Mentorship
Languages (Human)	English (native), Portuguese (intermediate)

Education

B.S. in Information Technology - Software Emphasis
Western Governors University, 2016

Professional Experience

R1 RCM, Inc. - Staff Software Engineer (3/2023 - Present)

Tech lead for the company's first AI app: an internal ChatGPT clone

- Rapid training on bleeding-edge AI technologies
- Kept the app up-to-date constantly as AI technology evolved and new features were requested, iterating through increasingly complex architectures
- Roughly on-par with ChatGPT functionality
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Recently joined a BI team where I'm applying my recent AI expertise

Working to allow users to chat with AI over our entire Data Warehouse
Customizing AI Agents and various prompt instructions for vibe coding
Planning major migration between Azure tenants

Presented on various technologies and architectural concepts for coworkers, other Architects, and management

R1 RCM, Inc. - Software Architect (7/2021 - 3/2023)

Worked with Accounts Receivable teams to design migration of our legacy monolithic apps towards newer architecture

- Microservices
- Domain-Driven Design (esp. Bounded Contexts)
- Event-Driven architecture (between microservices)
- Explicit Architecture (inside microservices)
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Built and maintained several shared packages, addressing various cross-cutting concerns for microservices

Conducted a pilot for GitHub Enterprise

Managed all configuration

Built and maintained custom build agents

Onboarded the entire development staff (and management)

Designed and executed the transition strategy from Jira

Trained new dedicated GitHub team, then handed off to them

Presented on various technologies and architectural concepts for coworkers, other Architects, and management

Willis Towers Watson plc - Software Architect (2/2017 - 7/2021)

Worked with several dev teams as a force-multiplier, with a specific focus on:

- Helping teams redesign legacy code as event-based microservices
- Using refactoring to arrive at those designs (instead of full-scale rewrites)
- Assisting teams as they migrated to new CI/CD tooling
- Coordinating integration between teams & their microservices
- Recommending best practices, patterns, and strategies
- Assisting developers to grow their personal software skills and plan for their careers (mentoring)

Built out IaC environments in Azure

Built and maintained several shared packages, addressing various cross-cutting concerns for microservices

Willis Towers Watson plc - Senior Software Developer (3/2016 - 2/2017)

Played a central role in designing and implementing the strategy for migrating to new database technology

Created efficient tooling to perform automated document migration and validation

General bugfixes, improving the performance of various components across our system

Improved the performance of our largest query by 50-80%

Explored options for moving our legacy monolith code to microservices

Aviacode, Inc. - Senior Software Developer (8/2013 - 2/2016)

Helped design and build new SaaS platform for medical coding professionals, including:

- Server-side distributed system
- Onion architecture
- Durable messaging
- Document storage
- Client-side SPA

Specific focus on back-end processes and security

Was fortunate to work under some truly amazing architects. While I wasn't the one driving this time around, I learned a lot.

Centershift, Inc. - Software Developer (2/2005 - 7/2013)

While the company used the same title for all developers, I served in the sole R&D/architect position.

Researched and spearheaded several initiatives to improve our software and SDLC, including:

- Project management (Agile, Scrum)
- Led a 2-day conference to train the entire company
- Helped train other companies with a coworker as a side gig
- Centralized source control (Hypervisor, TFS, VM, VNet)
- Automated CI/CD and log aggregation
- Virtual dynamic test lab
- Branching strategies
- Patterns & practices (Clean Code, Code Contracts, DDD, OOP, SOA, SOLID)
- Development techniques (Craftsmanship, Pair Programming, Refactoring)
- Testing techniques (Mocks, Test Automation, Test Pyramid, TDD)

Architect and lead developer on vNext SaaS platform

- Built and maintained core components for other developers, including:
 - CI/CD pipeline
 - Automated test environment
 - Project architecture
 - Authentication
 - Data access
 - Security
 - Credit card processing
- Platform was much more robust than anything the company had built before
- Single codebase, built & optimized for multiple target platforms
- 10,000+ unit & integration tests ran against each target platform, all in <5 mins
- Maintained $\geq 90\%$ code coverage
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Inherited lead development role for current SaaS platform. Significant contributions include:

- Data access
- Core object model
- Common UI controls
- Web services layer
- Deployment and Windows installer

Helped maintain legacy SaaS platform (2005 only)

Provided general support for the rest of the development team. When anyone needed help, I was the one they came to.

Keane, Inc. - Consultant (7/2001 - 1/2005)

Contracted to The Church of Jesus Christ of Latter-day Saints

Designed, built, and/or maintained several applications and databases, including:

- Global missionary debit card stipend system
- Genealogical (and other historical) records manager
- Tracking system for welfare provided to homeless people in Salt Lake City
- Integration of financial data with various 3rd-party systems
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Helped maintain and enhance several legacy applications, including:

- Global missionary onboarding system
- Custom project management application
- Parking permit & ticket management (on handheld devices) for church properties

Provided general IT support and consulting services

PEGUS Research, Inc. - Technical Research Assistant (7/1999 - 7/2001)

Designed, built, and/or maintained several applications and databases, including:

- Pharmaceutical research studies for companies such as Novartis and GlaxoSmithKline
- Internal time tracking and payroll
- Nationwide network of partner pharmacies

Provided IT support throughout the company

Past Certifications

I've earned various certifications over the years. These are no longer active, but demonstrate breadth of foundational knowledge. Always happy to pursue new ones if needed!

Microsoft Certified Professional

Windows Operating System Fundamentals Windows Server Administration Fundamentals

Software Development Fundamentals Web Development Fundamentals Database Fundamentals

Networking Fundamentals Security Fundamentals

A+ ce Network+ ce Security+ ce Project+

Web Foundations Associate Web Design Specialist JavaScript Specialist Database Design Specialist

Java SE 7 Programmer