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 >=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.

Additional experience (back to 1999) available at https://taffareljr.github.io/resume