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 development
- **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

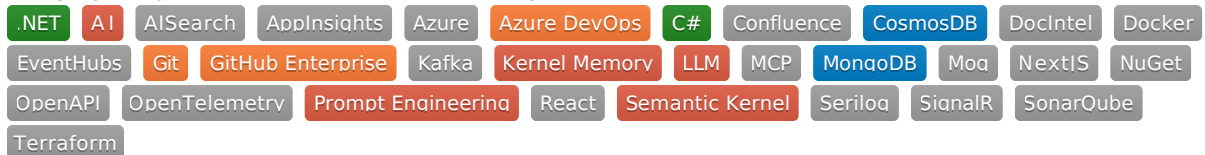| Domain	Technologies & Expertise
Architecture	DDD, Bounded Contexts, Event-Driven, Microservices, CQRS, Clean/Explicit Architecture
AI & ML	LLMs, RAG, Semantic Kernel, Prompt Engineering, AI Agents, Vector Search, Azure OpenAI
Languages	C#, SQL, some web
Cloud & Infra	Azure (CosmosDB, Event Hubs, Service Bus, App Services), Terraform, Docker, CI/CD
Data	SQL Server, CosmosDB, MongoDB, PostgreSQL, Snowflake, Event Sourcing
Practices	TDD, Refactoring, Code Review, Pair Programming, Technical Mentorship
Languages (Human)	English (native), Portuguese (quasi-fluent)

Education

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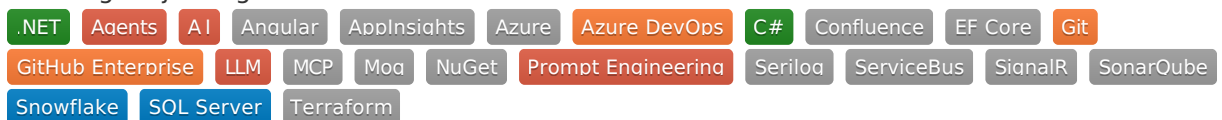
Professional Experience

R1 RCM, Inc.

(3/2023 - Present) Staff Software Engineer

- Position name change—the company decided to rename all Architect positions company-wide and embed us on specific teams
- 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

        .NET · AI · AISearch · AppInsights · Azure · Azure DevOps · C# · Confluence · CosmosDB · DocIntel · Docker · EventHubs · Git · GitHub Enterprise · Kafka · Kernel Memory · LLM · MCP · MongoDB · Moq · NextJS · NuGet · OpenAPI · OpenTelemetry · Prompt Engineering · React · Semantic Kernel · Serilog · SignalR · SonarQube · Terraform
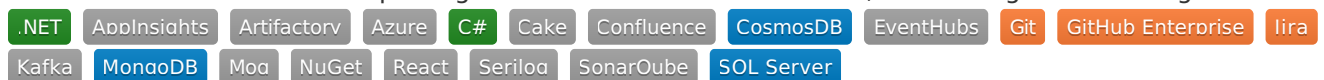- Recently joined a BI team where I'm applying my recent AI expertise
    - Moving to allow users to chat with AI over our entire Data Warehouse
    - Customizing AI Agents and various prompt instructions for vibe coding
    - Planning major migration between Azure tenants

        .NET · Agents · AI · Angular · AppInsights · Azure · Azure DevOps · C# · Confluence · EF Core · Git · GitHub Enterprise · LLM · MCP · Moq · NuGet · Prompt Engineering · Serilog · ServiceBus · SignalR · SonarQube · Snowflake · SQL Server · Terraform
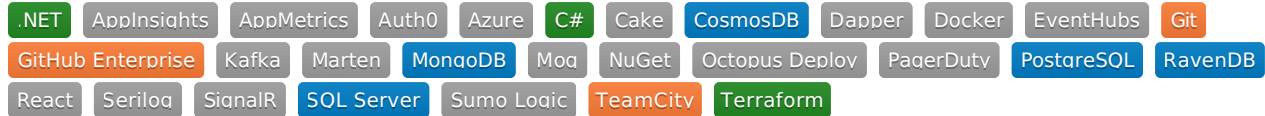
(7/2021 - 3/2023) Software Architect

- Worked with Accounts Receivable teams to design a migration of our legacy, monolithic apps towards a newer architecture consisting of:
    - Microservices
    - Domain-Driven Design (esp. Bounded Contexts)
    - Event-Driven architecture (between microservices)
    - Explicit Architecture (inside microservices)
- Presented on various technologies and architectural concepts for coworkers, other Architects, and management
- Conducted the 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
- Built and maintained several packages shared across microservices, addressing cross-cutting concerns

    .NET · AppInsights · Artifactory · Azure · C# · Cake · Confluence · CosmosDB · EventHubs · Git · GitHub Enterprise · Jira · Kafka · MongoDB · Moq · NuGet · React · Serilog · SonarQube · SQL Server

Willis Towers Watson plc

(2/2017 - 7/2021) **Software Architect**

- Promotion—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 packages shared across microservices, addressing cross-cutting concerns

.NET AppInsights AppMetrics Auth0 Azure C# Cake CosmosDB Dapper Docker EventHubs Git
GitHub Enterprise Kafka Marten MongoDB Moq NuGet Octopus Deploy PagerDuty PostgreSQL RavenDB
React Serilog SignalR SQL Server Sumo Logic TeamCity Terraform

(3/2016 - 2/2017) **Senior Software Developer**

- 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

.NET C# Dapper Git Marten Moq NuGet PostgreSQL RavenDB Storyteller StructureMap TeamCity

Aviacode, Inc.

(8/2013 - 2/2016) **Senior Software Developer**

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

.NET AJAX AngularJS Angular 2 ASP.NET Autofac C# CSS 3 Git HTML 5 IIS JavaScript JQuery JSON
Mercurial MSMQ NHibernate NuGet RavenDB Rhino Mocks SAML T4 TeamCity TypeScript WIF XML

Additional experience (1999–2013) available at taffareljr.github.io/resume