

# Jason Winnebeck

📍 Rochester, NY

✉ [gillius-job@gillius.org](mailto:gillius-job@gillius.org)

🌐 [gillius](#)



CV: <https://gillius.org/resume>

Last Updated: Dec 1, 2025

## Summary

Principal software engineer with over 20 years experience in modern backend Java and databases with Azure and on-prem DevOps experience and some frontend. As a life-long learner keeping up-to-date on the latest tools and processes, I quickly learn new stacks/languages and solve the most challenging tasks. I communicate well with stakeholders and keep a value-centric and realistic focus when designing software. My wide skill set enables picking the right tool for the job and leading cross-functional full stack teams.

I have worked in a wide range of industries: tech, telecom, university/research, IoT and energy. I enjoy working hands-on from requirements collection to production with projects that improve people's lives and involve deep technical ownership.

## Skills

**Backend:** expert Java, [Groovy](#), Spring Boot with some experience in Python and C++

**Database:** MS SQL / Azure SQL, Oracle, MySQL, Redis, and DynamoDB

**Full Stack:** HTML, JavaScript/TypeScript with some Angular and React

**Cloud:** Azure networking, App Service / Function App, AWS and Kubernetes

**DevOps:** Docker, GIT, GitHub Enterprise, Azure DevOps, JIRA, Jenkins

## Experience Highlights

A technical team lead of cross-functional teams involving backend, frontend, DevOps, QA, and BA in multiple positions.

Created a rules engine to replace a proprietary product used in an internal telecom sales tool, saving >\$100k/year in license fees. The engine included a Groovy domain specific language with a syntax close enough to the proprietary tool to allow semi-automated and incremental conversion. I greatly accelerated development speed by decreasing execution time of the integration tests from over an hour to 5 minutes allowing quick and reliable feedback.

Enhanced performance of a telecom sales tool to scale it from 10s of locations to 1000 or more, enabling sales to quote the largest and most lucrative customers. I achieved this by redesigning the Java Hibernate (database) layer to avoid "n+1" operations and unindexed queries, introduced Redis for cross-server caching, and extended the rule engine to generate flame graphs available in the UI that allowed testers to immediately diagnose any slow operations.

Modernized a telecom sales tool from an IE-only Java Server Faces application used by 1000s of users to AngularJS. By implementing a REST API on top of the existing JSF beans, there was no wasted development or feature freeze as core logic applied to both JSF and API frontends. The co-existing frontends allowed QA and UAT testers to easily compare functionality until final cutover.

Designed and implemented external-facing application allowing partners to price, quote, and order telecom services via SOAP API, REST/JSON, or a AngularJS-based web interface which greatly expanded partner sales capability through self-service and automation.

Developed a patented ([US 8175848](#)) Java-based vehicle monitoring platform which resulted in a spin-off company [Vnomics](#). The platform utilized MySQL, SQL Server, and automotive buses including J1939/CAN, J1587/J1708 and J1979. I led development of both the on-board system and off-board data synchronization and visualization tools.

Facilitated cloud usage at multiple organizations by migrating applications from virtual machines to Kubernetes, designing infrastructure in Azure and AWS, creating and maintaining CI/CD pipelines, introducing infrastructure-as-code, and performing cost reduction analysis.

Technical reviewer for [Groovy for Domain-Specific Languages](#).

## Education

[Rochester Institute of Technology](#)

MS, Computer Science 2010

- Study cluster: Distributed systems; Project: Embedded databases ([RealDB](#))

BS, Computer Science 2003

## Experience Details

[Bosch USA | Software and Digital Solutions](#)

Remote - Rochester, NY

Cloud Solutions Architect 4/2023 to 12/2025

Part of consulting team of Bosch SDS (Software and Digital Solutions), North America region

Client 1: Technical lead and architect for digital transformation project for a client with a natural gas liquids (NGL) fractionation plant. Provide technical leadership and oversight for multiple India-based teams. Work with infra team to design an Azure solution involving hub and spoke system with site-to-site VPN, VPC peering, Azure Firewall Premium, Application Gateway with WAF and more. Interview and select internal and external staff in both India and US teams. Built infra, Azure DevOps pipeline, Docker container and initial code for web application hosted on Azure App Service + Azure SQL with Java Spring

Boot and Angular while developers are being hired (frontend later switched to React / Next.js). Technical oversight of other teams using Azure Data Factory, Logic Apps, Databricks, CosmosDB, Python. Research and assist connection of Azure Data Factory with Honeywell DCS/PHD via ODBC connection in Microsoft Integration Runtime to pull live data from fractionation operations.

Client 2: Use case discovery and digital transformation roadmap for NGL transportation company. Conducted in-person interviews of operations, logistics, marketing, and IT staff to build and prioritize realistic use cases for transformation proposal. Research appropriate technologies to integrate with existing systems at the client. Develop Azure SQL database schema encompassing company's operations.

## Wipro | Fullstride Cloud Services Remote - Rochester, NY

Principal Software Engineer 2/2021 to 4/2023

Assignment at [Apple](#)

Technical lead of a cross-functional team (BA, backend, frontend, QA, and DevOps) creating an internal web microservices application. Led software development process by introducing code reviews and automated testing. Met with business stakeholders and BA to define requirements and sprint plans then break down into technical stories. The application consists of a Java 17 Spring Boot Webflux backend with Angular frontend, [DynamoDB](#) and MySQL (via [RDS](#)) databases, hosted in AWS utilizing load balancers (NLB), [S3](#), [EKS](#), [OpenSearch](#), [Lambda](#)s, and [CloudWatch](#).

- Built an automated CI/CD process using Apple-internal tooling. Introduced Kubernetes by migrating from [ECS](#) to EKS and built scripts to automatically build and deploy on push. The system supported pull request builds and branching to support parallel hotfix and feature development automatically. Documented this system so that it could be applied to another project in our same organization and trained devops team on its configuration. Initially using CloudFormation, worked with internal team to shift later to [Pulumi](#)/Python.
- Initial development or maintenance of integrations with multiple Apple-internal systems.
- Evaluate [Karate](#) for API and UI end-to-end tests and build prototype involving authentication and train team on its use. Later, we ended up switching to [Cypress](#) for UI testing, and for that I also built a prototype and trained team on its use.
- Optimized settings of DynamoDB, RDS, EC2 (EKS nodes), and OpenSearch to reduce AWS costs.
- As the team and stakeholders were widely distributed (India, US, Ireland), I would ensure appropriate documentation for all requirements and helped team to re-organize [Slack](#) channels and commit to using Slack and wiki consistently.

## Windstream Rochester, NY

Via: [Nespon IT Services](#) Contract - Software Engineer; 4/2020 to 1/2021

Via: [Wellington Steele and Associates](#) Contract - Sr Java Developer, 8/2013 to 4/2020

Lead Developer and Architect for enterprise sales quoting applications team.

Development of code and team best practices for supporting microservices:

- Research, prototype, and implementation of migration of REST (Spring MVC) microservices from custom embedded Tomcat to Spring Boot 2 architecture. Developed Gradle plugin to share common configuration implementing CI in Windstream's specific environment. The services support the quoting applications and utilize Redis, MongoDB, and Oracle databases.
- Led team's migration from microservices on VMs to Docker images on Kubernetes (Rancher) deployed via Azure DevOps pipelines. Built and documented template containing technologies relevant to the team.
- Set up and maintain Jenkins continuous integration server on Linux and Sonatype Nexus 3 for proxying and publishing npm, NuGet, Docker and Maven artifacts. Assisted management of TeamCity CI jobs.
- Led team's migration of Mercurial/Atlassian/TeamCity/Jenkins toolset to new company-wide standard on git and Azure DevOps. Built scripts to convert Mercurial to git and template projects and Azure pipelines. The Nexus 3 server I set up was migrated to the organization-wide architecture team as it was adopted in the microservices and Azure DevOps infrastructure.

Main quoting application used by direct sales:

- Primary team contact for architectural design and integrations with other applications. Assist business stakeholders in requirements design for our application to ensure a cost-effective solution that meets business needs.
- Rewrite JSF-based UI of the company's primary internal sales quoting application to AngularJS with JSON backend implemented in JAX-RS+Groovy on Weblogic. The new backend also allowed replacing Selenium-based integration testing with direct API testing, reducing automated testing times from hours to minutes.
- Part of a team to integrate the application with Salesforce, converting some existing code utilizing Oracle PL/SQL to SOAP/SOQL queries
- Plan, architect, and implement a Groovy rules framework to replace proprietary usage of IBM JRules system. Manage and implement the actual migration with a few other developers.
- Performance optimization project involving Oracle table and index design, Guava and Redis caching. For Redis I was involved with technology selection/justification, configuration and deployment scripts on Linux.
- Team lead for project working with IT infrastructure to move main application and all supporting microservices to a different data center at a different domain. Included assisting RHEL OS upgrade and Oracle RDBMS upgrade including writing and testing initial datapump script.

Simplified portal for external (indirect) sales:

- Selected technologies, design and build backend and frontend for a sales quoting application used by external sales users and API for quoting aggregators
- Backend provided SOAP (JAX-WS) and REST (JAX-RS) web services using Jetty and CXF, implemented in Groovy
- Frontend written in JavaScript, using AngularJS and Bootstrap with Grunt, Bower, and npm
- Configure services and Apache on Linux development and production servers

## Rochester Institute of Technology      Rochester, NY

Senior Staff Engineer 11/2011 to 08/2013

Staff Engineer 12/2003 to 10/2011

- Lead software design and development process for multiple projects primarily under Office of Naval Research funding:
  - Java framework for a modular vehicle diagnostics and telematics system. Used Java 1.7, JDBC, SQL, XML, and networking standards SAE J1587, J1708, J1939, and CAN. [US patent 8175848](#) granted for this project.
  - Java Swing-based maintainer's interface, and data synchronization software
  - Android version to collect and store data from light vehicles (OBD-II / J1979)
  - Projects have been deployed in US Marine Corps, commercial applications, and a spin-off company, [Vnomics](#)
- Introduced and facilitated Agile programming ([Scrum](#) model)
- Work with MySQL databases on Linux and SQL Server databases (100s GB+ size) in Windows.
- Developed and implemented team workflow and release management processes (continuous integration).
- Interview, hire and manage student co-ops (paid internships).
- Evaluated, configured and maintained development services (SVN, [Trac](#), Apache, ScrumWorks, TeamCity, and MySQL) on a Linux Ubuntu server.

Software Co-op 5/2002 to 11/2002 + 5/2003 - 8/2003

- Started design and coding for vehicle monitoring application and maintainer's interface, described above.

## Williams      Tulsa, OK

Web Application Developer Co-op 5/2001 to 8/2001 + 11/2001 to 2/2002

- Used JSP, JDBC, Oracle DB, JavaScript, CSS, and HTML to create intranet web applications
- Worked in a project to redesign the [Tulsa Historical Society](#) website (since redesigned)

---

**Patents**      [Data Processing Systems and Methods](#), 8175848

---

**Honors and Activities**      Eagle Scout, Cub Scout cubmaster / den leader, volleyball