

# Jason Winnebeck

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**GitHub:** [gillius](#)

**Location:** Rochester, NY

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

## Summary

Hands-on principal software engineer with 20 years experience in modern Java, DevOps, Cloud (AWS), and full stack (TypeScript/Angular) experience based in Rochester, NY. My industry experience includes enterprise software, telecom, and telematics/IoT applications. I am experienced as a team lead and mentor and have the ability to quickly pick up new technologies and dig deep into applications to solve the most difficult engineering problems while keeping a focus on the customer/end goal.

## Skills

**Java:** Java 17, [Groovy](#). Spring Boot, Spring Data/Hibernate/JPA, Spring MVC, Webflux, JAX-RS, JAX-WS

**AWS / Cloud IaC:** EKS, DynamoDB, RDS (MySQL and Aurora), Lambda, S3, EC2, NLB, IAM, CloudWatch. Pulumi (Python) and CloudFormation.

**Databases:** Oracle RDBMS, MySQL, Redis and Lua, MongoDB, Microsoft SQL Server

**Web:** HTML, CSS, Web services (REST/JSON/OpenAPI and SOAP), JavaScript/TypeScript, Angular, React. OpenID Connect and OAuth 2 (JWT)

**DevOps:** Docker, Kubernetes, OpenLens, GIT, Mercurial, Azure DevOps, GitHub Enterprise, JIRA, Fisheye/Crucible, Jenkins, TeamCity

**Other:** Some experience with Python, past experience with C/C++

## Education

[Rochester Institute of Technology](#)

MS, Computer Science 2010

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

BS, Computer Science 2003

## Experience

[Wipro | Fullstride Cloud Services](#)

**Remote - Rochester, NY**

Principal Software Engineer 2/1/2021 to present

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. Our 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](#), [Lambdas](#), 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)

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### Patents

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

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### Honors and Activities

Eagle Scout, Cub Scout cubmaster / den leader, volleyball, technical reviewer for [Groovy for Domain-Specific Languages](#)