

Kent Rosenkoetter

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Chicago, IL 60606

Education

- [**Rose-Hulman Institute of Technology**](#)
B.S. in Computer Science, 2001
- [**University of North Carolina at Chapel Hill**](#)
Coursework toward Ph.D. in Computer Science, 2001–2003

Skills

- Proficient with a wide variety of computer languages from C/C++/Java to assembly.
- Specializes in using Java and the Spring Framework to build or refactor back-end services.
- Penchant for seeking strict language adherence, particularly with the C++ STL.
- Experienced with development environments including GCC/make, JDK/ant, [Maven](#), and Eclipse.
- Proficient on Microsoft Windows and Unix-style systems (including Mac OS X).
- Experienced in administering scores of interdependent heterogeneous server fleets in enterprise environments.
- Experienced with the design and maintenance of high-availability and high-throughput services.
- Experienced with realtime on-demand debugging of high-availability and high-throughput services.
- Experienced with SQL and JDBC, prefers to hand-craft select and update statements rather than rely on ORM frameworks. Always uses bind variables.
- Experienced with Servlet containers such as [Tomcat](#).
- Experienced with [OSGi](#).
- Experienced with dependency injection tools such as [CDI](#), [Spring](#), and [Microsoft.Extensions.DependencyInjection](#).
- Experienced with cloud tools such as [Kubernetes](#), [Google Cloud](#), and [Microsoft Azure](#).
- Experienced in assisting other programmers of varying skill with simple or subtle debugging.

Work Experience

- **Software Development Contractor** — [Nordstrom](#) via [Insight Global](#)
Chicago, IL, 2023
Rewrote .NET REST services in Java supporting the credit rewards campaigns. Developed new Java services deployed into Kubernetes using [Aurora](#), [DynamoDB](#), and [Kafka](#). Defined and deployed AWS resources using [Terraform](#). Added several improvements to the company-wide standardized build pipeline. Identified and provided fixes for several mistakes in the published Engineering Standards.
- **Software Development Contractor** — [343 Industries](#) via [Randstad](#)
Seattle, WA, 2022
Developed .NET gRPC services to manage partial-terabyte Perforce clients. Pioneered using NuGet for [native C++ libraries](#) to reduce the size of said Perforce clients.
- **Senior Backend Software Engineer** — [Very Good Security](#)
Seattle, WA, 2020–2021
Wrote a proxy transforming pipeline using Spring Integration to unify processing of HTTPS, SFTP, FTPS, and other pluggable protocols using scriptable routing and computation.
- **Senior Software Engineer** — [Starbucks](#)
Seattle, WA, 2018–2020
Migrated .NET Framework services to .NET Core, wrote and deployed services from scratch, published over a dozen internal libraries for re-use across the organization, replaced custom auth system with OpenID Connect.
- **Senior Software Developer** — [MultiScale Health Networks](#)
Seattle, WA, 2016–2018
Automated complicated multi-stage data pipelines using Kubernetes so they could run on Google Cloud or Microsoft Azure. Imported all C++ code into a new [Conan](#)-based build system to handle dependencies. Wrote, tested, hardened, and deployed to production a REST service built with [Spring Boot](#) and [JAX-RS](#) in two weeks, using [Auth0](#) for AAA.
- **Software Development Contractor** — [Staples](#) via [Harvey Nash](#)
Seattle, WA, 2014–2016
Integrated the internal search feature with multiple third-party search providers using the Spring Framework. Separated a monolithic Java service into separate modules consumed as versioned libraries. Added continuous integration and static analysis tools. Implemented [semantic versioning](#).
- **Software Development Engineer II** — [Microsoft](#)
Seattle, WA, 2013
Hired to develop and maintain Sharepoint Online. Started a long-term project to improve and extend the unit testing framework used, both for C# and PowerShell code. Demonstrated a new [dependency management system](#) to the build tools team.

- Software Developer — [Double Down Interactive](#)**
 Seattle, WA, 2012
 Worked with a legacy Java codebase using a third-party chat service that embedded an OSGi container for the business logic. Rewrote the Maven POM files to properly express dependencies on OSGi bundles and to enable version management, both in the Maven build and in the OSGi runtime. Implemented integration tests based on [Pax Exam](#) for OSGi bundles' public interfaces. Became proficient in the use of Guice for dependency injection.
- Software Developer — [Cequent.com](#)**
 Seattle, WA, 2010–2012
 Implemented, debugged, and refactored multiple Java services for the core product. Assisted Operations with debugging support, provided realtime monitoring and configuration tools using JMX. Became proficient in the use of Spring for dependency injection. Organized and maintained the code dependency tree, wrote a build system composed of modular Ant script and using [Ivy](#) for dependency management. Implemented a Maven-compatible publish system. Reduced the runtime memory footprint of one service from 300 MB to 80 MB. Increased the unit test coverage of the same service from 5% to over 70%, included static analysis as part of the continuous build for all code modules.
- Software Developer — [Amazon.com](#)**
 Seattle, WA, 2005–2010
 Designed, deployed, and maintained multiple Java and C++ Tier-1 services (99.99% uptime) inside the Ordering Pipeline. Maintained dozens of server fleets spanning up to hundreds of hosts running behind multiple hardware load balancers. Participated in a pager rotation duty. Engaged in operational duties requiring interoperability and support between scores of services spread across multiple organizational units and departments. Developed new software and tools to support existing functionality and new projects as needed. Replaced a custom-written threading library with the `java.util.concurrent` toolkit. Rewrote the DAL for a 200 ms latency service to directly query Oracle instead of use a custom BDB.
- Software Developer — [PTC](#)**
 Arden Hills, MN, 2005
 Maintenance and feature work for enterprise-scale PLM software.
- Contract Developer — [Stage Logic, Inc.](#)**
 Terre Haute, IN, *summer 2002*
 Developed Java GUI for distributed theater software.