

Tiffany Timbric, Enterprise Backend Coder / Software Developer / Architect
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Overview

I write code, Enterprise Backend, usually Web Services, mostly Java/Kotlin/Scala, Microservices, JEE, Spring Boot, Spring Batch, Cloud / AWS, Docker / Kubernetes, Event-driven design / Reactive eXtensions, relational databases SQL, NoSQL, Cassandra, messaging / JMS, Hadoop, Google Protocol Buffers, OSGi, Cucumber / Gerkin, Wiremock, Mockito, JUnit, Bash scripting, Linux / Unix, and many other things like Puppet, Zookeeper, Jetty, Tomcat, JBoss, etc.

I have been coding enterprise software since ~1990.

I worked at Sun Microsystems, Inc. in software development, then switched to their Sun Java Center consulting group to help their customers, mostly Wall Street, but also Silicon Valley. We instructed on system architecture, software architecture, software development methodology, and wrote code. Later I worked at PayPal, Tendril, JDA Software Group, and others as a lead developer.

Personal Coding Examples

- Finite State Machine Library
 - <https://github.com/chadwickboggs/fsm>
- Crypto, a command-line tool supporting cryptosystem plugins
 - <https://github.com/chadwickboggs/crypto>
 - NtruCryptosystem, a Crypto plugin supporting NTRU (two key) cryptography
 - <https://tbuktu.github.io/ntru>
 - XorCryptosystem, a Crypto plugin supporting XOR (single key) cryptography
 - https://en.wikipedia.org/wiki/XOR_cipher

Preferred Development Environment

- MacBook Pro Laptop
- JetBrains IntelliJ IDEA

Employment History

6/2022 – 1/2023 Senior Software Engineer, Global Healthcare Exchange (GHX)

- Lead team authoring software connecting hospital ERP and medical equipment purchasing systems to GHX.
- Lead design sessions and reviewed all code changes and new features.
- Identified and corrected design flaws.

- Identified and corrected scalability bugs: connection pools, retries, AWS AZ failovers.
- Used AWS EC2, SQS, S3, and Lambda, Java, Oracle (SQL).
- Implemented Web Services, both server-side and client-side, FTP, sFTP, HTTP(S), JSON serialization/deserialization, SQL.
- Deployed in 100's of customers' data centers, two-week production release cadence.

2020 – 5/2022 Software Developer, PayPal w/ TCS

- Implemented direct-deposit signup services in Spring Boot.
- Implemented account bank migrations, bank change, for all PayPal accounts in Spring Batch.
- SQL, Filesystem I/O, AWS SMS, Web Services server-side and client-side.
- Maintained and implemented feature enhancements to a batch merchant report generation system.

2019 Software Engineer, Arris / Commscope

- Updated the video catalog and merchandising backend originally authored by Motorola for Bouygues Telecom, France.
- Java EE, WildFly, GlassFish, WebSphere, REST, Wiremock, Mockito, Postman, Wireshark.

2018 – 4/2018 Software Engineer, Comcast Corporation

- Updated Java product to use Docker and Kubernetes, Java 11, Cucumber, Reactive Extensions, Git.

2016 – 2017 Software Engineer, Charter Communications

- Maintained hundreds of Java microservices, added new microservices all in Amazon Web Services server-side and client-side.
- Linux, Netflix OSS, Cassandra NoSQL, Reactive Extensions, Hystrix, Java 8, SQS, SNS, S3, EC2, ActiveMQ, Mongo, Git, Spring.

9/2014 – 2015 Software Engineer, Comcast Corporation

- Designed and built event / Reactive eXtension (RxJDBC), RabbitMQ Message Oriented Middleware (MOM) front to an Oracle database as part of the Resiliency Project, Java, Git.

2014 – 5/2014 Software Engineer, Tendril Inc.

- Backend / DevOps Engineer on SOA Finagle+Protobuf+Cloud Java/Scala microservices.
- Atlassian, Cucumber BDD, PostgreSQL, Hadoop, Hibernate, Scala, IntelliJ IDEA, Git.

2010 – 2013 Senior Software Engineer, JDA Software / RedPrairie / StorePerform

- Project Lead for integration of iOS/Android mobile task system with legacy web-based system.
- Extended and maintained legacy J2EE web-based task management system.
- Customers included Fortune 500 companies. Scalability and performance were paramount.
- Technologies: OSGi, Gradle, and SQL Server, Git, Mercurial, Subversion, CVS.

2008 – 2009 Independent Software Development Consultant

- Extended and maintained a JEE merchandise inventory system with MySQL DB, Java, Spring.
- Customers: AmDocs, Etilize, Bell South, eBay, Frontier Airlines, Skyway.

2007 Chief Operation Officer, Evolution Hosting, Inc.

- ViaWest data center Linux servers for J2EE applications with Java management software, Java, Linux, VMware, Zen, Amazon Web Services.
- Large number of customers including Crocs, Wells Fargo, and Hunter Douglas.

2004 – 2007 Independent Software Development & Java Consultant

- Created NIO client with could reach 100 Mb/s scale message rates.
- Created new web sites, Java.
- Consulted at eBay, Frontier Airlines, Bell South, Skyway representing Sun Microsystems, Inc.

2002 – 2004 Senior Software Architect, Packexpo, Inc.

- Created a reporting system for packaging advertising services.
- Maintained packaging advertising web site.
- Technologies: JBoss, Linux, MySQL, IntelliJ, BeanShell, JSP, Lzop'ed data stream for large DB backups over NFS mounts, Java, Groovy.

Education, Certifications, Patents

- Certified Java Developer
- Certified Java Programmer
- Patent: [#6907423](#) Search engine interface and method of controlling client searches
- B.S. Computer Science, University of Colorado at Boulder
- Attended the United States Military Academy at West Point