

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

I write code, enterprise backend usually web services, Java/Kotlin/Scala/Groovy, micro-services, Spring Boot, Spring Batch, cloud / AWS, Docker, Kubernetes, event driven design / Reactive eXtensions, relational database SQL, NoSQL, Cassandra, JMS, messaging, Hadoop, Google Protocol Buffers, OSGi, Cucumber / Gerkin, Wiremock, Mockito, Junit, Bash scripting, Linux / Unix, and many other things I have used when writing enterprise backend software, some of which includes Puppet, Zookeeper, Jetty, Tomcat, J-Boss, etc. having been coding commercial software since ~1990.

I worked at Sun Microsystems, Inc. in software development, then switched to their Java Center to consult out to their customer, mostly Wall Street, then silicon valley. We lead architecture, methodology, as well as design, coding, texting. Later I worked at StorePerform / RedPrairie / JDA Software Group as a lead and coder doing OSGi service oriented architecture (SOA). I was a Senior Architect at Pack-expo, Inc., but mostly I consult as a coder.

## ***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](https://en.wikipedia.org/wiki/XOR_cipher)

## ***Employment History***

### **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.
- 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, Corp.**

- Updated one Java system to Docker/Kubernetes, Java 11, Cucumber, Reactive Extensions, Git.

## **2016 – 2017 Software Engineer, Charter Communications.**

- Maintained 100+ Java micro-services, added new micro-services all in Amazon Web Services.
- Linux, Netflix OSS, Cassandra NoSQL, Reactive Extensions, Java 8, SQS, SNS, S3, EC2, Active MQ, Mongo, Git, Spring.

## **9/2014 – 2015 Software Engineer, Comcast, Corp.**

- 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.**

- Back-end dev-ops programmer on SOA Finagle+Protobuf+Cloud Java/Scala micro-services.
- Atlassian, Cucumber BDD, PostgreSQL, Hadoop, Hibernate, Scala, IntelliJ IDEA, Git.

## **2010 – 2013 Senior Software Engineer, JDA Software Group, Inc. which merged with RedPrairie, Corp. formerly StorePerform, Inc.**

- Project Lead for integration of iOS, Android mobile task system with legacy web-based system
- Tasks roughly are E-mail messages enhanced for distributing and tracking business actions.
- Customers included Fortune-500 companies. Scalability, performance were significant.
- Technologies: OSGi, Gradle, Git, and Sql Server, Git, Mercurial, Subversion, CVS.
- Extended and maintained legacy J2EE web-based task management system.

## **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 Crocks, Wells Fargo, and Hunter Douglass, among others.

## **2004 – 2007 Independent Software Development Consultant & Sun 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 systems for packaging advertising services.
- Maintained packaging advertising web site.
- Technologies: JBoss, Linux, MySQL, Intelli-J, BeanShell, JSP, Lzop'ed data stream for large DB backups over NFS mounts, Java, Groovy.

## **1999 – 2002 Java Consultant, Sun Java Center, Sun Microsystems, Inc.**

- Represented Sun for RUP, UP, SunTone, OOA&D mentoring and J2EE coding, Java, SCCS, Teamware, RCS, Solaris, Java.
- Consulted at Citigroup, Vanguard Fiduciary Trust, Credit Suisse.
- Performed an Architecture Assessment recommending SOA and JEE which later was followed as advised.

## **1998 – 1999 Java Developer, Sun Educational Services, Sun Microsystems, Inc.**

- Created web-based and Swing computer assisted training systems.
- Improved the performance of our custom pseudo-recursive-descent parser template engine by adding caching of parser results and by altering the parsing algorithm.

## ***Education, Certifications, Patents***

- Sun Certified Java Developer
- Sun 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