David Ray Reizes
Senior Consultant / Java Software Engineer / Technical Architect

August 2023

I'm currently available and looking for full-time or contract opportunities. Focusing on the middle-tier, cloud native API projects, as well as backend api design work including data wrangling and schema design. Available for regional travel, with the ability to work remotely from my home office in Albuquerque, New Mexico. Having completed a project in 2023 with RezultGroup for Blue Cross / Blue Shield of Alabama -- working remotely in the role of Sr. Java Full Stack Developer.

Previously for Fidelis in 2022, on assignment with Sandia National Labratories (Albuquerque, NM) consulting for the Enterprise Cloud Services DevOps team. Providing infrastructure support for PaaS and SaaS products within the internal facing restricted network.

During 2021, I worked with Artech as a Lead Solution Engineer for Wells Fargo Bank in Phoenix AZ, remotely from my home office. Preparing solution API designs for complex cross-work-stream efforts. Coordinating and collaborating with multiple work-groups across several business domains. And working daily with engineering scrum teams, business leaders and project owners in an agile style. Additionally leading Solution Engineering Virtual Forums about technology capabilities for Wells Fargo initiatives.

In 2020, I was engaged as an Infosys Consultant working in the role of Sr. Solutions Engineer onsite at The Capital Group in Irvine, California. Agile team environment developing containerized migration of new micro-services supporting the line of business.

Summer 2019, I was employed by WestCoast Consulting on assignment to DXC Technologies. Working remotely in Studio City as a member of the MapR Big Data Consultancy team. Where I obtained MapR Certified Database Developer and Advanced Apache Spark Certifications.

Recently having worked at Disney and NBC Studios during 2018, as an InsightGlobal consultant in java software engineering, cloud services and api development. Project requirements included Architecture, Design, and hand's on Coding for spring-boot and hybrid cloud applications deployed with Docker containers. Mostly Java, with some Kotlin, Python, and JavaScript with integration of Cloud Native Functions, Gateway Tasks and Kafka Streams Processors.

TLDR;

David Ray Reizes <daveray@daveray.net> | 310-292-0250

- 20 years cutting-edge enterprise internet software engineering experience
- 15+ years Java, J2EE, Web services
    - Spring, JSF, JavaFX, JPA, Hibernate,
    - XML and RESTful API's,
    - JavaScript, JSON, Ajax, Node.js, AngularJS, Bootstrap, Grunt, Bower, WebPack
    - CSS, HTML, HTML5, SASS, WebAssembly
- *Recent experience with*:
    - Docker, Kubernetes AWS, GCE
    - SQL, Oracle, MySQL, NoSql, XMLDb, MongoDB, ELK Stack
    - spring-boot, spring-rest, spring-kafka, spring-cloud, spring-cache, spring-aop, spring-webflux, spring-boot, spring- security, spring-oauth2, spring-web-services, springfox-swagger, spring-kafka, apache kafka, confluent kafka, mongo-db, oauth2, docker, compose, kubernetes, aws, maven, swagger, gradle

Relevant Skills: Senior Java Engineer

Technology	Skill level	Years	Since	Last used
√ Java / J2EE	★ ★ ★ ★ ★	14	1998	2023
• Java 8 w/ Streams & Lambdas, 11, 14, 17, 18	★ ★ ★ ★ ★	5+	2014	2023
• JEE6 / CDI / JSF	★ ★ ★ ★ ★	4+	2007	2018
• JPA / Hibernate	★ ★ ★ ★ ★	5+	2006	2022
√ Spring Framework	★ ★ ★ ★ ★	10+	2012	2023
• Spring Boot	★ ★ ★ ★ ★	6+	2005	2023
• Spring Cloud	★ ★ ★ ★ ★	1+	2018	2022
√ SQL	★ ★ ★ ★ ★	15+	1995	2023
√ Oracle PL/SQL	★ ★ ★ ★ ★	7	2007	2017
√ mySQL / Oracle 8, 9i, 11g +	★ ★ ★ ★ ★	9+	2007	2022
√ NoSqlDb	★ ★ ★ ★ ★	10+	2016	2022
• MongoDb / Cassandra / Redis	★ ★ ★ ★ ★	5	2008	2020
√ JMS / ActiveMQ / RabbitMQ	★ ★ ★ ★ ★	7+	2005	2022
√ Kafka / Confluent / Apache / Spring	★ ★ ★ ★ ★	2+	2017	2022
√ Data Structures / Document / Schema	★ ★ ★ ★ ★	9	2009	2023
√ Full Stack Development	★ ★ ★ ★ ★	7+	2008	2023
√ Javascript	★ ★ ★ ★ ★	10+	1995	2023
√ Angular 2 + Typescript, ReactJS	★ ★ ★ ★ ★	3	2014	2023
√ Micro / Web Services	★ ★ ★ ★ ★	10+	2005	2023
• REST / RESTful	★ ★ ★ ★ ★	6+	2008	2023
• Swagger / OpenAPI	★ ★ ★ ★ ★	2+	2017	2019
• SOA / SOAP	★ ★ ★ ★ ★	6+	2005	2018
√ PaaS / SaaS AWS EC2, EKS, ELB, S3	★ ★ ★ ★ ★	5+	2011	2022
√ Virtualization / Cloud / Docker	★ ★ ★ ★ ★	5+	2011	2022
• Kubernetes / Openshift / Serverless	★ ★ ★ ★ ★	3+	2017	2021
√ DevOps / Continuous Integration / Delivery	★ ★ ★ ★ ★	10+	1995	2022
√ GIT / GitHub / GitLab	★ ★ ★ ★ ★	10+	2008	2023

Professional Experience

Sr. Java Full-Stack Developer   1/2023 – 7/2023
Rezult Group, Birmingham, AL

On remote assignment for **Blue Cross/Blue Shield of Alabama**, working on an java legacy application re-write project. Primarily backend focused converting from Java Applets to Java Spring Web Services and SQL for DB2 backend service integration with mainframe processes and data. Along with heavy Angular frontend web development in typescript and CKEditor javascript front end integration. (java jdk-8/11, spring framework: spring-boot, spring-rest, web-services, db2, sql, node 14.x, 16.x, angular 14.x, typescript 4.x, ckeditor 5 javascript framework).

Sr. Java Engineer   2/2022 – 9/2022
Fidelis Companies, Dallas, TX

On assignment to **Sandia National Laboratories,** Albuquerque NM, with the Enterprise Cloud Services DevOps team. Working remotely on PaaS operations, adding new features to existing microservices, providing support for secure enterprise applications and weblogic middleware, and developing Jenkins Blue Ocean CI/CD pipelines within the secure Sandia Restricted Network internal cloud. (java jdk-8/11/16, spring framework: spring-boot, spring-rest, splunk, docker, kubernetes, microservices, oracle, mysql, linux, oracle virtual manager, jenkins, ansible, puppet, python, javascript, sql).

Lead Solution Engineer   1/2021 – 7/2021
Artech Information Systems, Minneapolis, MN

Working for **Wells Fargo Bank** in Phoenix AZ as **Lead Solution Engineer**. Creating REST API designs for the Credit Card Re-Invention project. Coordinating and collaborating with multiple work-groups across several business domains. Including engineering teams, business leaders and product owners in an agile style. Additionally leading a couple of Solution Engineering Forums about technology capabilities for Wells Fargo initiatives. Researching, preparing and delivering presentations in virtual forums with an audience size of more than 35 engineers. (spring-boot, spring-rest, splunk, docker, kubernetes, pcf, azure, aws, microservices, kafka, solution-design, architecture, domain-driven-design, event-driven, data-streams).

Sr. Java Software Engineer   1/2020 – 4/2020
Purple Drive Technology, Irvine, CA

Engaged as an **Infosys Consultant** in the role of **Sr. Solutions Engineer for The Capital Group** onsite in Irvine,California. Agile team developing new containerized micro-services supporting the line of business. (spring-boot, spring-rest, splunk, docker, kubernetes, openshift, aws, microservices).

Sr. Java Software Engineer / API Programmer   6/2019 – 9/2019
West Coast Consulting, Irvine, CA

Working remotely in Studio City on assignment to *DXC Technologies*, as a member of the **MapR Big Data Consultancy** team. *Data Wrangling* using APIs associated with MapR XD Distributed File and Object Store, MapR Database, MapR Event Store for Apache Kafka, Kafka APIs, and Spark Streaming APIs. MapR Academy certified for:*MapR Certified Database Developer* and *Advanced Apache Spark*. (java, api, backend, linux, mapr, publish-subscribe,event streaming, hadoop, spark, drill, hive, ha, hdfs, s3, hbase, json, kafka, posix, nosql, json, ojai, zepplin, docker).

Sr. Java Software Engineer / Backend API Developer   3/2018 – 11/2018
Insight Global, Los Angeles, CA

3/2018 - 9/2018 - on assignment to the *Walt Disney Studios, Marketing Technology Group* providing applicationmaintenance and development of backend api's supporting new features. (spring-boot, spring-rest, spring-cache, spring-aop, spring-webflux, multi-threaded architecture, mongo-db, swagger, gradle).

9/2018 - 11/2018 - on assignment to *NBC Universal, Development Center of Excellence* as Application Architectconsulting in cloud services and api development. (spring-boot, spring-rest, spring-kafka, spring-cloud, mongo-db, oauth2, docker, compose, kubernetes, aws, maven).

Sr. Java Software Engineer / Identity Access Management
University of California, Santa Barbara, CA **5/2017 – 3/2018**

> UC Path Sr. Integration Developer for UCSB Enterprise Technical Services - Software Engineering and Application Lifecycle team. Design and development of critical, scalable, responsive and highly available realtime and batch webservices for UCSB IAM systems and processes. (node.js, aurelia.js, angular.js, bootstrap, jdk-8, spring-boot, spring- security, spring-oauth2, spring-web-services, springfox-swagger, spring-kafka, apache kafka, confluent kafka, apereoCAS, LDAP, mysq, kubernetes, docker, sqs, kinesis, aws).

Sr. Consultant / Java Software Engineer / Technical Architect **1/2010 – 5/2017**
August West Inc.

> **PayPal**, San Jose, CA [CSC/BravoTech, Texas]
> **VSP**, Sacramento, CA [ALKU Technologies, Massachusetts]
> **AT&T Research Labs**, New York - *remote* [Oxford International, Wisconsin]
> **Bosch Automotive**, Santa Barbara, CA [Oxford International, Wisconsin]
> **Data Trak Inc.**, Texas - *remote* [Oxford International, Wisconsin]
> **Valicore / Green Hills Software**, Irvine, CA [Oxford International, Wisconsin]
> **Warner Bros. Studios,** Burbank, CA [Odessus, Los Angeles]
> **Toyota,** Torrance, CA [TPG Consulting, Aliso Viejo]

> *August West Inc.* – contract engagement details

> **PayPal**: RESTful API migration, design and development for Identity Access Management MicroServices in production featuring backwards compatibility with existing deployed developer communtiy API's.

> **PayPal**: Production support for Service Level Agreements with code pain-point identification and solution design including recode to parallel processing architecture, code review, quality assurance and production monitoring of Real-Time RISK Rules-Engine based MicroServices for Tokenized Payment Services.

> **VSP**: SAP back-office RESTful API design and implementation for integration with legacy consumer facing webservice platform of an insurance domain single payer provider.

> **AT&T Research Labs**: Implementation of Secure Web Services, Single Sign On, and OAUTH2 Token Security.

> **Bosch Automotive**: Embedded programming for vehicle telematic diagnostic tooling within the automotive domainusing Eclipse RCP.

> **Data Trak**: Designing and developing new features of existing B2B web applications and webservices, code maintenance, with unit, performance and functional testing.

> **Valicore / Green Hills Software**: For an end-client in Detroit's automotive domain: Solution Architecture and Full-Stackimplementation of a Command-Control GUI including SOAP Web-Services wrapping a RESTful API for an Embedded PKS KeySigning- Server. JAAS Security Providers utilized the Embedded Server's Identity Manager and the applicationweb-services were divided into Secure and Public Domains, with Role–Based Secure Session Management. Supporting 2-Factor Authentication and Federated Security Services integrated with Oracle Identity Manager.

> **American Tours** and **Toyota**: Architecture, design and implementation of SOA webservices with SOAP, REST, andRESTful API design and development.

> **Technologies**: Sun Identity Manager, AT&T SAFE, Eclipse RCP, OSGI, JSP, J2EE, Apache Wicket, Tapestry, GWT, SmartClient, Hibernate Search, Lucene, SOLR, jUnit, Selenium, Tomcat, JBoss-M3, WebLogic 10.3, Oracle 11i/ 12c, Glassfish, OTA webservices, RESTful webservices, OAUTH2, WSS, HTML5, Javascript, Webpack, Babel, ES6, TypeScript, Node, Express, Bootstrap, Materialize CSS, SCSS WebComponents, Cordova, Angular, React, Vue, WebAssembly, WebSockets, STOMP, AJAX, JSON, REST, SOAP, XML, XSLT, XSD, JAX-RS, Jersey, JAX-WS, Metro,JAX-B, JAAS, Jetty 8, JDK-J2SE 7, Two-Factor Auth, OIM, IAM, Apache Thrift, SOA, Node.js, Embedded Architecture, Vehicle Telematics, Legacy Service Integration, MicroServices, TDD, jUnit, Mokito, Maven, spring-boot, spring-rest, spring-hateos, spring-framework, spring-ws, spring-security, spring-security-oauth2, spring-security-jaas, springframework.amqp, Eclipse RCP, Jenkins, Nexus, JPA, Hibernate, XML, SQL, JIRA, Stash, FishEye, Bamboo, Chef, VMWare, Oracle BOX, Docker, AWS, Architecture, Client, SasS, IaaS, PaaS, AWS: EC2, EBS, S3, VPC, VMWare, VBox, Pivotal Cloud Foundry, PWS, PCF-dev, BOSH, Packer, Virtual Clouds, Hybrid Clouds, Architecting theCloud and Beyond, AWS Cloud Summit.

Technical Analyst / Sr. Java Developer   2/2009 – 1/2010
Deloitte Consulting: RipCord Tech/Saibber, LLC., Costa Mesa, CA
California Administrative Office of the Courts, Court Case Management System

Designing Software Technical Requirements for EJB / J2EE web app on Oracle Weblogic 10.3 and Oracle 11g database. Developing interfaces and abstract classesas new API for the business services layer. Utilizing business rules, EJBs, JPA, and JCS application level caches. (JDK 1.6, JSP, Ajax, Struts, Spring: spring-beans, spring-ws, springframework-ejb, XmlBeans, JBoss rules / drools, JCS, Kodo JPA, Oracle 11g, Weblogic 10.3, Eclipse, JUnit, Ant)

Java Software Engineer / Architect   7/2008 – 10/2008
Threshold Interactive, Culver City, CA

Development Lead for an offshore development group in Mexico. Performed requirement analysis, software architecture and design, code review, build and integration management for a WEB 2.0 Community website featuring a video game associated with the entertainment industry. (JDK 1.6, JSP, Ajax, jQuery, dojo, JSTL, JSF, Apache MyFaces-Trinidad, MySQL, oracle TopLink Essentials JPA, XStream 1.3, XPP2, Jettison, JSON, XML, SOAP, SSO and REST)

Senior Java Developer   10/2007 – 5/2008
United Healthcare Group / Ovations, New York

New York State Child Healthcare Program, provided system architecture/design and java development of 'SuperCHP' - Healthcare Program enrollment application utilizing SOA, AJAX, Drools (JBoss Rules), J2EE, Tomcat, Oracle 8i

Development of a web portal for healthcare providers utilizing J2EE, Tomcat, Oracle 8i, and Sun design patterns including Java Beans, JSP's and Servlets integrated with Perot Systems' Diamond healthcare product. (SOA, web services, xml, javascript, dojo, ajax, J2EE, Tomcat, Oracle 8i, and Sun design patterns including Java Beans, JSP's andServlets) (J2EE, Tomcat, Oracle8i, javascript, dHTML, CSS, WebApps, Web Architecture, AIX)

Senior Software Engineer JAVA   04/2007 – 10/2007
Wells Fargo HMC, Arizona.

Developed a JUnit based java RMI real-time automated testing API for Wells Fargo Financial Home MortgageCompany's SOA MQSeries Weblogic application server. Also served as primary on-call 24/7 production environment support engineer on a six week rotation with other team members. (Oracle, JMS, spring-beans, SOAP, spring-ws, WebLogic, MQSeries, XSLST, ANT, JunitEE, Junit)

Senior Web Developer/Software Engineer   07/2006 – 03/2007
AmeriChoice, a UnitedHealth Group Company, Phoenix, AZ.

Developed the member enrollment web application for a new medicare state insurance line of United Healthcare Group. And development of a web portal for healthcare providers (2003-05), utilized J2EE, Tomcat, Oracle 8i, and Sun design patterns including Java Beans, JSP's and Servlets integrated with Perot Systems' Diamond healthcare product. (SOA,web services, xml, javascript, dojo, ajax, J2EE, Tomcat, Oracle 8i, and Sun design patterns including Java Beans, JSP's and Servlets) (J2EE, Tomcat, Oracle8i, javascript, dHTML, CSS, WebApps, Web Architecture, AIX)

JAVA Developer   8/2005 – 6/2006
Boingo Wireless, Santa Monica, CA

Architecture, Design, RAD-Development and Documentation of Boingo's open source Embedded Wi-Fi Toolkit - Configuration Server (Web Service). R&D prototype for JMS internal messaging system between distributed server components using Mule EnterpriseService Bus and ActiveMQ (spring-beans). Performance testing of JMS comparing ActiveMQ and Sun JMSQ using JUnit. Design and implementation of Web Services XML Security for SOAP based Web Service (Boingo Configuration Server) using Java JAAS and Radius AAA(spring-security-jaas). SOAP RMI and Client development include Spring Framework based Web GUI with AJAX and DOJO Framework integration (spring-web-mvc, spring-data, spring-data-jdbc). Development of Rete Rule-Engine (Drools) based validator for wireless configuration data.

Work Experience 1995 to 2004

JAVA Web Developer/Software Engineer • ClearPath Networks, El Segundo CA   **03/2004 – 04/2004**
GUI design and middle tier programming for web based network administration tool and customer premise equipmentinstallation wizard. (PERL, javascript, dHTML, CSS, GIMP, WebApps, Web Architecture, RedHat Linux)

Java SoftwareEngineer • OnCall Personnel, San Diego, CA   12**/2003 – 1/2004**

High-level architecture design and prototyping of a websphere JMS/XSL web service linking a Siebel front-end to anOracle order-entry system (Websphere 5.0, WSAD 5.1, P/L SQL, Oracle 9i,CSS, RedHat Linux)

Java Engineer • VeryCoolGifts.com, Hermosa Beach, CA   **5/2003 – 12/2003**
e-Commerce - UI/UX, and Backend Web App (Application Architecture, PERL, PERL-Custom Objects, Java, Java2, HTML, javaScript, LINUX)

Senior Web Developer/Software Engineer • INDX Software, Aliso Viejo, CA   **10/2002 – 4/2003**
UI/UX javascript SPA (Java, javascript, dHTML, CSS, .NET, XML, Rational Clearcase, WebApps, Web Architecture/Security)

Software Engineer/Web Developer • Ballantyne, Newport Beach, CA   **4/2002 – 5/2002**
WebApp backend, data-wrangling, database schema (PERL, MySQL, XML, WebApps, Web Architecture/Security)

Senior Java Developer / Software Engineer • RCG-IT / MPAA, Encino, CA   **12/2001 – 2/2002**
EJB WebApp, motion picture piracy analysis and security (J2EE, JSP, Servlets, SQL Server, Tomcat, HTML, javaScript)

Software Engineer • Azius (www.azius.com) Redondo Beach, CA   **1/2001 – 12/2001**
CMS self published content management e-commerce WebApp (PERL, Adobe photoshop, gif animator)

Java Developer • United Internet Technology, Los Angeles, CA   **6/2000 – 12/2000**
Java, J2EE, applets, and EJBs for remote network iOT devices, databases and com/active-x controls in web-browser ui/ux.

Java Developer • ROTOR.NET, Los Angeles, CA   **2/2000 – 6/2000**
Oracle schema documentation, database backup and design/optimization. WebApp development (Rotor Network, Real-Audio/Video, Apache, PERL, PERL-DBI, PERL-DBD:Oracle, Oracle Developer 2000, Oracle JDeveloper, PL-SQL, Rational Rose, UML, XML, Visio, HTML, javaScript, LINUX)

Software Engineer • Sharf, Woodward & Assoc., Sherman Oaks, CA   **8/1999 – 12/1999**
Contract work for eToys data warehouse (PERL) and for RareMedium drDrew.com iChat messaging social website launch. (javascript)

Webmaster • Candle, El Segundo, CA   **2/1999 – 10/1999**
Team leader developing web applications for Candle's business infrastructure and Internet channel. (Netscape Enterprise Server, Apache, Lotus Notes/ Domino, UML, PERL, PERL-LWP, PERL-DBI, dHTML, HTML, javaScript, Java, Cold Fusion, Visual Basic, ASP, Web Server Security, FLASH, SMIL, XML, Informix, Webtrends, Wind

Webmaster/Developer • KTEL Online / PeopleWare, Inc., El Segundo, CA   **2/1998 – 12/1998**
UI/UX and backend of e-Commerce website and webApps. (Apache, PERL, PERL-LWP, PERL-Syperl, HTML, Security, WindowsNT, UNIX, FLASH, SMIL,XML, Sybase, InterShop, NT4.0, IIS4.0, CGI, JavaScript, SQLServer, VB-5.0, ASP, Active X)

Sr. Web Integrator • Walt Disney Co. (disney.com), North Hollywood, CA   **5/1996 – 12/1997**
Responsible for three websites: www.disney.com, www.disneyland.com and www.disneyrecords.com. (UNIX, NT4.0, IIS3.0, PERL, CGI, JavaScript, HTML, Oracle, S

Art Director • Lahaina News, Lahaina, HI   **1/1994 – 12/1995**
Conceived, Designed and Produced Hawaii's first online community newspaper for the world wide web. (AWK, HTML, Photoshop, FTP, DOS, UNIX, WWW)

CERTIFICATIONS

2019 MapR Academy Certification
- **7/2019 - MapR Certified Database Developer (Hadoop)**
- **8/2019 - Advanced Apache Spark**

2017 University of California, Santa Barbara CA
- 4Q/2017 - ENGR X452.01- (30u 3.0 A)
  Introduction to Project Management
- 4Q/2017 - ENGR X452.02 - (36u 4.0 A+)
  Project Initiation, Planning, and Integration

2012 Oracle University, San Francisco, CA
- **Architecting the Cloud and Beyond**

8/2000 - New Horizons Computer Learning Center, Culver City, CA
- Professional, Java J2EE @ UIT Enterprise Custom Training

EDUCATION
1979 California State University Northridge, CA
- **Professional, Art 2D Media**

1976 Granada Hills High, Granada Hills, CA
- **HS Graduate**

JAVA and WEB ENABLED DIGITAL ENTERPRISE TECHNOLOGIES

Technical	Years	Experience
Java Development	20+	**Since 1995:** 14 years JAVA / 11 years J2EE
Java, J2EE and Web Services	16+	**Since 1998:** Relevant java experience includes JDK 5.0, 6, 7, 8, 10, J2EE, J2SE, JDBC, JAAS, WSDP, JAX and JMS. Successfully engineered Web Services and Applications using Java Servlets and JSP based GUI's utilizing Spring-boot, Spring MVC/IoC, Struts, JSF, JAVA API's for XML, Jakarta Taglibs, EJB's in Tomcat, WebSphere, Oracle WebLogic and JBOSS
Java Spring Framework	9+	**Since 2005:** spring-framework / spring-beans / springframework-ejb / springframework-ws /springframework.amqp / spring-web-mvc / spring-security-jaas / spring-data / spring-data- jdbc / spring-data-jpa / spring-ws / spring-security / spring-security-jaas / spring-security- oauth2 / spring-rest / spring-hateos / spring-boot / springfox-swagger / spring-kafka / spring-cloud / spring-cloud-data-flow / spring-cloud-stream / spring-cloud-task
EJB	6+	Since 2003: EJB 2.0 / EJB 3.0 / MDB / MBeans / JPA / CDI / JWS / Servlet / XML / Annotations
JMS	12+	Since 2005: RabbitMQ / Active MQ / Mule ESB / JMSQ/ Enterprise Messaging Grid / Weblogic JMS / Oracle Advanced Queuing / Event Driven Architecture with Oracle ComplexEvent Processing
Web Services	12+	**Since 2007**: REST / RESTful / JSON / SOAP / XML / XSLT / XSD / JAX-RS / Jersey / JAX-WS / JAX-B / JAAS / OAUTH2 / Java SE / Axis / SOA / Legacy Service Integration / MicroServices
In Memory Data Grid / Cache	5+	**Since 2008:** Oracle Times ten / Derby DB / Coherence / SOLR / Lucene / Hibernate Cache / JCache / JCS / MongoDb
Distributed Systems	12+	**Since 1988**: Client Server / WebLogic Cluster / MQSeries / MapR Hadoop Cluster
REST	8+	**Since 1988:** Javascript clients / AJAX / Endpoint API / Jersey / JAX-RS / spring-mvc / spring-rx
JavaScript	15+	**Since 1995:** ECMAScript 3 / ES4 / ES5 / ES6 / TypeScript / Webpack / Babel / Node / Express / Bootstrap / Materialize CSS / SCSS WebComponents / Cordova / Angular / React /Vue / WebAssembly / WebSockets / STOMP
Design Patterns	12+	**Since 2004: MVC / DAO / BO / VO / JPA / JAAS / JAX / CDI / SOA / ESB / EDA / CEP / Facade / Business Delegate / Interceptor / Proxy / Observer / State / Factory / Singleton / Service to worker / Service Activator / Executor Service / Micro Services / Agent / Actor / Reactor**
Test Driven Development	5+	Since 2005: Junit / Selenium / HttpUnit / Eclipse
Virtualization and Cloud	4+	**Since 2011**: Architecture / Client / SasS / IaaS / Paas /AWS: EC2, EBS, S3, VPC / VMWare / VBox / Docker / Pivotal: Cloud Foundry, PCF-dev, BOSH, Packer / Virtual Clouds / Hybrid Clouds / 2012 Oracle University: Architecting the Cloud and Beyond / 2014 and 2018 AWS Cloud Summit
Java Application Servers	12+	**Since 2000: Tomcat** **Since 2005: Weblogic** 11g Web Services / Enterprise Messaging Grid / Weblogic JMS **Since 2007: JBOSS**
Content Management Build and Deployment	4+	**Since 2000: Ant** **Since 2009: CI/CD** Jenkins / Jira / Stash / Fisheye / Bamboo / Chef / Virtualization / Docker: Client, Machine, Compose, Kubernetes, Terminal **Since 2011: Maven** **Since 2018: Gradle**
University of California Santa Barbara	<1	**4Q/2017** ENGR X452.01 **Introduction to Project Management** ($30u$ 3.0 A) **4Q/2017** ENGR X452.02 **Project Initiation, Planning, and Integration** ($36u$ 4.0 A+)
MapR Academy Certification	<1	**7/2019 - MapR Certified Database Developer** (Hadoop) **8/2019 - Advanced Apache Spark**

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