

Matthew T. Adams

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Summary

- Pragmatic senior software engineer, architect, team leader & mentor
- Over thirty years of professional, hands-on experience in many technical ecosystems
- Looking for roles of chief technology officer, technical leadership, or senior individual contributor

Experience

Northscaler (formerly SciSpike)

Principal Consultant: August, 2012 to present

- Led designs & implementations of client projects, and supported implementation teams with internal and open source libraries
- Founding co-committer of [Spring Data Cassandra](#)
- Primary author of the [Northscaler npm open source libraries](#)

Client: Confidential (2021), Healthcare Information System MVP

- Led design & implementation of greenfield healthcare information system startup for third world countries using a hybrid edge/cloud design that's resilient against loss of cloud connectivity
- Technologies: CQRS, DDD, Event Sourcing, AxonIQ, JVM, Kotlin, Spring Boot, Spring WebFlux, REST, MongoDB, Docker, Helm, Kubernetes, GCP, Vue.js

Client: [New York Blood Center](#) (2021), Blood Donation Information Store & Forward System

- Led design & implementation of second version of edge & cloud services to collect and upload blood donation information via employees' mobile devices
- Technologies: Node.js, Typescript, HAPI, REST, MongoDB, Docker, Helm, Kubernetes, Azure, iOS

Client: [DeleHealth](#) (2020-2021), Elderly Fall Detection Alert System

- Led design & implementation of IoT startup that detects when humans fall without using wearables, triggering alarms in nurse call systems
- Technologies: CQRS, DDD, Node.js, JavaScript, Koa, Kafka, MongoDB, IoT, REST, Docker, Helm, Kubernetes, GCP

Client: [AbleTo](#) (2020), Modernization & Scalability Project

- Led design & implementation of new architecture, transitioning legacy stack of PHP, Laravel & relational to a performant, event-driven stack of Node.js, JavaScript, Kafka & MongoDB
- Technologies: Node.js, JavaScript, Express, REST, Kafka, Docker, Helm, Kubernetes

Client: [Northwestern Mutual](#) (2017-2019), Investment Data Integration Service & Digital Modernization Project

- Led design & implementation of data integration service for Northwestern Mutual's Investment Product & Services division, storing & retrieving trade-related data to & from financial partners
- Senior contributor to Northwestern Mutual's digital modernization project
- Technologies: Node.js, JavaScript, Express, REST, Vert.X, Java, Spring, Reactor, RxJava, Docker, Helm, Kubernetes

Client: [City & County of Denver](#) (2016), Smart City of Denver Pilot Project

- Led design & implementation of IoT pilot project to detect road, traffic & hazard conditions from sensors in city & county vehicles to cloud-connected, roadside units, feeding monitoring dashboard and triggering alarms upon evidence of accidents
- Technologies: Scala, Spark, Java, Kafka, MongoDB, Docker, AWS

Client: [New York Blood Center](#) (2015), Blood Donation Information Store & Forward System

- Led design & implementation of edge & cloud services to collect and upload blood donation information via employees' mobile devices
- Technologies: Node.js, Typescript, Express, REST, MongoDB, iOS

Client: Confidential (2012-2013), Intelligent Employment Matching Startup

- Led design & implementation of next generation, intelligent employer/employee matching recruitment service
 - Technologies: Java, Spring, MongoDB
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Matthew Adams Consulting

Principal Consultant: January, 2009 to August, 2012

Client: [Electronic Arts](#), Austin, TX (August, 2011 to August, 2012)

- Provided Java development services for next-generation and existing highly-scaled gaming platform, including database sharding, migration from Hibernate to vendor-neutral JPA, and work on various other stories
- Technologies: Java, Spring, OSGi, Equinox, Virgo, JPA/Hibernate, JDBC, JMS, JUnit, TestNG, Maven, EasyMock

Client: Financial Dynamics, Denver, CO (June, 2010 to July, 2011)

- Provided development services in Java & C# for new features and enhancements to trading information systems
- Technologies: Java, Spring, Spring Batch, Maven, JUnit, C#, .NET, SQL Server, Visual Studio, NUnit, Microsoft Test

Client: [Pierce County Information Technologies](#), Tacoma, WA (January to June, 2010)

- Provided Java development services for new features and enhancements to legal information systems
- Technologies: Spring, Java, AspectJ, Servlets, JPA/OpenJPA, JDBC, JSP, Jetty, JUnit, Maven, AJAX, Ext JS

Client: Statera, Bellevue, WA (November, 2009 to January, 2010)

- Provided Java development services to confidential Statera client integrating Amazon's Mechanical Turk platform.
- Technologies: Java, Servlets, JSP, Hibernate, Spring

Client: [Pierce County Information Technology](#), Tacoma, WA (March, 2009 to November, 2010)

- Awarded contract to build AJAX-based, RIA paperless court order system
- Gathered requirements for, designed and built foundation for rewrite of county legal information system
- Technologies: Java, JEE, Spring, Jetty, OpenJPA, JUnit, Maven, Ant, AspectJ, AJAX, Ext JS, Sybase, BIRT, XML

Client: Avue Technologies, Tacoma, WA (February to March, 2009)

- Provided design & implementation guidance on database and web controller refactoring
- Diagnosed and resolved production memory issues
- Technologies: Java, JEE, EJB, Servlets, JSP, Hibernate, Spring

Client: Nilistics, Seattle, WA (February, 2009)

- Provided design recommendations and developed inversion of control build framework product
 - Technologies: Ant, Java
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[SpringSource \(now VMWare Tanzu\)](#)

Senior Consultant: August, 2007 to January, 2009

Technologies: Spring Framework, Spring MVC, Spring WebFlow, Java, JEE, Servlets, Hibernate, JPA, JDO, JDBC, JSP, JMS, JMX, JTA, Tomcat, JUnit, Ant, Maven, OSGi

- Conducted public and private classes nationwide on the Spring Framework, Spring MVC, Spring WebFlow, Hibernate and more
 - Created training courseware for several SpringSource training courses, including student labs and slides
 - Provided technical marketing collateral for the SpringSource marketing department, including technical articles & slides, screencasts, datasheets, demos and FAQs
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Matthew Adams Consulting

Independent Consultant: May, 2007 to August, 2007

Client: [F5 Networks](#), Seattle, WA (July to August, 2007)

- Collaborated on F5 knowledge base application
- Integrated Spring MVC with Communiqué
- Technologies: Java, JEE, Spring, Communiqué, Servlets, JSP, Tomcat

Client: [thePlatform \(now Comcast Technology Solutions\)](#), Seattle, WA (June to July, 2007)

- Collaborated on digital media asset delivery project
- Technologies: Java, JEE, Spring, Ant, Maven, JUnit, Tomcat

Client: [Muse](#), Seattle WA (May, 2007)

- Consulted on architectural best practices on the use of transparent persistence with JDO and JPA
 - Technologies: Java, JEE, JDO, JPA, JUnit
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[Xcalia \(now Progress\)](#)

Senior Consultant & Product Marketing Manager: July, 2006 to May, 2007

Consultant: August, 2004 to July, 2006

Technologies: Java, J2EE/JEE, Servlets, JSP, Spring, JDO, JPA, Tomcat, EJB, JUnit, Ant, Maven

- Created new corporate web site using Spring MVC, JSP and JDO on Tomcat
 - Served in capacity of consultant, sales engineer, and product marketing manager
 - Promoted Xcalia's products through technical demonstrations, presentations at technical conferences, and presence in numerous online technical forums
 - Participated in strategic business partnership identification and evaluation
 - Collaborated on marketing of product line, its features, and direction
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[The Cobalt Group \(now CDK Global\)](#)

Enterprise Architect: March, 2004 to August, 2004

Technologies: Java, J2EE, WebLogic, Servlets, JSP, EJB, JDO, JUnit, Ant

- Performed detailed domain-driven analysis of Cobalt's vertical market
 - Worked with architecture team to establish software architecture, development, and process standards
 - Oversaw the redesign effort of the automobile inventory service, a Cobalt core enterprise service
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Travelport Corporate Solutions (now Orbitz)

Senior Software Engineer/Architect: July, 2000 to March, 2004

Technologies: .NET, C#, ASP.NET, IIS, SQL Server, NUnit, XML, XSL, Java, J2EE, Tomcat, JBoss, EJB, JDO, JESS/Rules Engine, JUnit, JMS, Ant, UML

- Designed and implemented a new corporate travel policy enforcement service
 - Refactored home-grown transparent persistence framework
 - Integrated Travelport's legacy, XML-based logging system with log4net
 - Analyzed, designed, and prototyped persistent domain object model for Travelport client organization, corporate travel policy, and fine-grained application-level security
 - Designed and prototyped new enterprise system for corporate travel services, with a custom JMS-based workflow engine
 - Created comprehensive Ant-based build for new architecture, including JUnit-based testing
 - Developed Java Cryptography Architecture (JCA) component to enable secure single sign-on (SSO) between Travelport's legacy components and custom client systems
 - Supported portal development team with refactoring of custom content management server
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Red Sky Interactive (now Designory)

Senior Java Developer: March, 2000 to June, 2000

Technologies: Java, J2EE, EJB, WebLogic, UML

- Led the design of marine e-commerce website for Red Sky client
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First Horizon Merchant Services (now Elavon)

Windows/Internet Software Engineer: October, 1996 to February, 2000

Technologies: Java, J++, COM, MTS, ASP, MIDL, Win32, C, C++, MFC, SQL Server, Poet FastObjects

- Created web-based merchant credit card transaction search engine
 - Instituted company-wide development standards on the full software development life cycle
 - Performed design & code reviews for all projects to ensure adherence to standards
 - Designed and developed credit card transaction dispute management persistent domain object model and intranet web-based application in Java/J++ and ASP using an ODMG-compliant ODBMS and SQL Server
 - Designed and implemented web presentation tier framework for both intranet and Internet web sites, encompassing look-and-feel, site navigation, and integrated security
 - Ported MFC-based C++ credit card processing application from 16 to 32-bit
 - Designed and implemented plug-in framework for above application in order to import and export credit card transaction data in arbitrary formats
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J.D. Edwards (now Oracle)

Programmer/Analyst: February, 1995 to October, 1996

Consultant, February, 1995 to July, 1995

Technologies: C, C++, MFC, Java

- Led the OneWorld installation software team
 - Refactored existing C code base to leverage object orientation using Visual C++ and MFC
 - Researched integration of OneWorld product with emerging Java technologies
 - Served on Internet deployment team for www.jdedwards.com
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MEG Laboratory, University of Colorado Health Sciences Center

Programmer/Professional Research Assistant: January, 1993 to February, 1995

Technologies: C, MATLAB

- Created laboratory website
 - Developed software in C and MATLAB to analyze neuroanatomical structures on Solaris
 - Created sophisticated 3D neuroanatomically correct renderings for publication
 - Coauthor of three published research papers on neurological MEG
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Matthew Adams Consulting

Independent Consultant: January, 1992 to April, 1992

Technologies: C, MS-DOS, Basic

Client: Pyxis, San Diego, CA

- Provided cost-to-benefit analysis application to sales department
 - Enhanced MedStation product to include transaction data export facility
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The Quantum Leap

Programmer: October, 1989 to July, 1991

Technologies: dBase/FoxBase, C

- Contributed to various client engagements under principal consultant
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Professional Affiliations

- Member, JSR 12, Java Data Objects 1.0 (JDO)
- Member, JSR 220, Enterprise JavaBeans 3.0 (EJB), Java Persistence API 1.0 (JPA)
- Member, JSR 243, Java Data Objects 2.0 (JDO)
- Member, JSR 317, Java Persistence API 2.0 (JPA)
- Member, CommonJ Service Data Objects 2.1 Specification Group (SDO)

Education

- Bachelor of Arts, Cognitive Science, University of California at San Diego, 1991
 - Minors: Physics, Mathematics, French, Music