

STEVE FOSDAL

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ABOUT

I am a driven lead software engineer. With more than 10 years of experience, I will architect and implement pragmatic solutions.

I seek a team that wants the same and will provide novel and challenging opportunities so that I can bring my skills to bear in their organization and continue to grow.

WORK EXPERIENCE

Big Data Engineer @ Avvo **2017 – Now**

Scala, Spark, Spark Streaming, Kafka, Cloudera, AWS/EMR, GCP, CircleCI, DockerHub

- Built backend service for recommending related content in batch and real-time
- Mentored engineers in Scala and Spark

Solution Architect @ Slalom Consulting **2015 – 2017**

Scala, Spark, AWS/Kinesis, AWS/Lambda, AWS/EMR, Azure, Netflix/Eureka

- One of two lead engineers on a team of 14 for a precision agriculture project. Jointly responsible for data lake migration, design, development, code reviews and mentoring

Lead Engineer @ Here Technologies **2010 – 2015**

Lead Engineer @ Traffic Prediction 2014 – 2015

Scala, Akka, RabbitMQ, Spark, AWS/EMR, Apache Camel, Puppet, Redis

- Led team of 5 developers to build out actor system for real-time traffic prediction
- Converted historical traffic data processing from traditional Hadoop to Spark

Lead Engineer @ Core Components and Algorithms 2014 – 2015

Java, Apache Camel, SOAP, REST, XPath, XQuery

- Centralized common code into libraries used across multiple teams
- Worked with traffic data researchers to improve performance and quality of traffic algorithms, map matching, vehicle routing, and travel time allocation

Lead Engineer @ Global Traffic Data Collection 2012 – 2013

Java, RabbitMQ, Ehcache, Hazelcast, Apache Camel, REST, XPath, XQuery, Puppet

- Led transition project of a global team of engineers to transfer support, maintenance, and development of codebase from Bonn, Germany to Chicago under intense, rigid deadlines
- Lead architect in the redesign of data collection framework

Lead Ops Engineer @ Applications Operations 2010 – 2012

Java, Groovy, PL/SQL, XPath, XQuery, Perl, SOAP

- Created PL/SQL packages to streamline use of multi-terabyte database to automate testing of new artifacts and measure quality changes from year to year
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Lead Engineer @ University of Chicago **2009 – 2010**

Java, PL/SQL, C#, Perl, jQuery

- Implemented PL/SQL enhancements to SunGard Advance
- Recommended architectural directions for application and data warehouse development

Senior Engineer @ Gundersen Health System **2008 – 2009**

PL/SQL, Perl, Java, DICOM, Mirth, Tomcat, MySQL, GE-PACS, HL7

- Architected and developed an application to perform batch migration of 10TB+ of historical medical imagery as well as real-time processing of medical data from affiliated clinics
- Developed algorithm for patient matching and de-duplication

Lead Engineer @ University of Wisconsin-Madison **1994 – 2008**

Lead Engineer @ Wisconsin Public Health Information Network 2005 - 2008

JSP, ant, XSL, XPath, XQuery, PL/SQL, Perl, Apache Tomcat, Solaris, HL7

- Led team of 10 developers in creation of several interdependent Java EE applications
- Implemented layer of common services in use by all WI-PHIN applications
- Introduced version control, issue tracking, automated build, and other best practices

Senior Engineer @ Collaborative Applications 2002 - 2005

Cold Fusion, PHP, PL/SQL, ASP, Visual Basic, JavaScript

- Designed, implemented and supported integration of Oracle Financial Apps

Software Engineer @ Installation & Repair 1998 - 2002

Perl, SQL, JavaScript

- Primary system administrator for Linux based file server and web server
- Developed web-based scheduling and time recording tool, including recurring events, email notifications, work efficiency and payroll reports

Software Engineer @ Emerging Media Technologies 1994 – 1998

Perl, CGI, OMNIS, SQL, JavaScript

- Created the first web-based parts catalog for DoIT store front

System Admin @ UW-Madison – Physics Lab **1991-1994**

- Managed software and hardware for multiple labs of NeXTSTEP, ULTRIX, and VAX/VMS servers

EDUCATION

University of Wisconsin – Madison **1988-1993**

B.S. Physics

- Studied graduate level High Energy Physics, Computational Physics, and Mathematics
 - Acknowledged for computational simulation work in: Charged Vortex Dynamics in Ginzburg-Landau Theory of the Fractional Quantum Hall Effect, <http://arxiv.org/abs/hep-th/9206073>
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