

# Steve Fosdal

✉ [steve@fosdal.net](mailto:steve@fosdal.net)  
🌐 <http://fosdal.net>  
📄 [sfosdal](#)  
🌐 [stevefosdal](#)  
📍 Seattle, WA

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**Objective:** As a software engineer with more than 10 years of experience, I am driven to architect and implement pragmatic solutions.

I seek an organization that wants the same and will provide novel and challenging opportunities so that I can bring my skills to bear, continuing to grow the organization and as an individual.

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**Skills:** Scala, Java, Spark, Akka, Real-time data processing, Kafka, RabbitMQ, Machine Learning, CircleCI, Jenkins, MySQL, Postgres, Oracle  
AWS [EMR, EC2, Kinesis, Lambda, Athena, CloudFormation, CloudWatch]

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**Experience:** **Senior Data Engineer @ Avvo** **2017 – Present**  
Scala, Spark, Spark Streaming, Kafka, Cloudera, AWS [Athena, CloudWatch, EC2, EMR, and Lambda], CircleCI, DockerHub

- Built backend service for real-time recommendations for related content
- Recommended plan for migration from Cloudera to core AWS services
- Mentored engineers in Scala and Spark

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**Technical Reviewer, Akka Cookbook** **2017**  
<https://www.packtpub.com/application-development/akka-cookbook>

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**Solution Architect @ Slalom Consulting** **2015 – 2017**  
Scala, Spark, AWS [EMR, Kinesis, Lambda], Azure, Netflix Eureka

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

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**Technical Reviewer, Mastering RabbitMQ** **2015**  
<https://www.packtpub.com/application-development/mastering-rabbitmq>

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**Lead Engineer @ HERE Technologies** **2010 – 2015**  
Scala, Java, Groovy, Akka, RabbitMQ, Spark, AWS [EMR], Apache Camel, Puppet, Redis, Ehcache, Perl

**Lead Engineer Predictive Traffic** **2014 – 2015**

- Led team of engineers to build Akka based actor system for real-time traffic prediction
- Converted historical traffic data processing from traditional Hadoop to Spark

**Lead Engineer Core Components & Algorithms** **2013 – 2014**

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

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**Lead Engineer      Global Traffic Data Collection      2012 – 2013**

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

**Lead Ops Engineer      Location Reference      2010 – 2012**

- Created data pipeline to streamline use of large database to automate testing of new datasets 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

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

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**Senior Engineer @ Gundersen      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 across multiple health clinics

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**Lead Engineer @ UW-Madison      1994 – 2008**

JSP, ant, XSL, XPath, XQuery, PL/SQL, Perl, Apache Tomcat, Solaris, HL7, Cold Fusion, PHP, ASP, Visual Basic, JavaScript, SQL, OMNIS

**Lead Engineer      WI Public Health Info Network      2005 – 2008**

- Led team of 10 developers in creation of several interdependent J2EE based services
- Implemented layer of common services and libraries in use by all WI-PHIN applications
- Introduced team to version control, issue tracking, automated builds, and coding standards.

**Senior Engineer      Collaborative Applications      2002 – 2005**

- Designed, implemented and supported integration of Oracle Financial Apps into existing services

**Software Engineer      Installation & Repair      1998 – 2002**

- 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**

- Created the first web-based parts catalog for DoIT store point of sale

**System Admin      Physics Lab      1991 – 1994**

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

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**Education: B.S. Physics      UW-Madison      1988 – 1993**

- 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>