

Steve Fosdal

608-347-0014 · steve@fosdal.net · fosdal.net · github.com/sfosdal · linkedin.com/in/stevefosdal

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, contributing to the organization's growth and mine.

Skills

Languages: Scala / Java / Perl / PL-SQL

Frameworks: Spark / Spark Streaming / Akka / Akka HTTP / Akka Cluster / Apache Camel / Scalatra

Databases/Etc.: Kafka / RabbitMQ / Cassandra / MongoDB / MySQL / Postgres / Oracle

Services/Tools: CircleCI / Jenkins / Docker / Kubernetes / GitHub / GitLab / Artifactory

AWS: EMR / Kinesis / Lambda / Athena / CloudFormation / CloudWatch / EC2

Experience

Staff Engineer @ The Climate Corporation Seattle, WA 2019 - Present

Scala / Akka / Akka HTTP / Scalatra / MySQL / Postgres / Docker / AWS

- Built out new microservice based platform
- Supported many legacy services in various JVM based languages
- Lead on the team in proposing/reviewing architecture and system changes

Co-founder @ Ghostwood Labs Seattle, WA 2018 - Present

- Founded company specializing in codifying intuition using big data & machine learning

Senior Platform Engineer @ Apptentive Seattle, WA 2018 - 2019

Scala / Spark / Akka / Akka Streams / Kafka / Cassandra / MongoDB / Docker / Kubernetes AWS: EMR / Kinesis / Athena / EC2

- Built out new platform based on Akka
- Active participant in proposing and reviewing new architecture and system designs

Senior Data Engineer @ Avvo Seattle, WA 2017 - 2018

Scala / Spark / Spark Streaming / Kafka / Cloudera / CircleCI / Docker AWS: Athena / CloudWatch / EC2 / EMR / Lambda

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

Technical Reviewer @ Packt - Akka Cookbook 2017

Learn how to use the Akka framework to build effective applications in Scala

<https://www.packtpub.com/application-development/akka-cookbook>

Solution Architect @ Slalom Consulting **Chicago, IL** **2015 - 2017**

Scala / Spark / Java / Spring / Eureka / Azure AWS: EMR / Kinesis / Lambda

- One of two leads on a team of 14 for precision agriculture project
- Responsible for data lake migration, design & development
- Mentored engineers in Scala

Technical Reviewer @ Packt - Mastering RabbitMQ **2015**

Master the art of developing message-based applications with RabbitMQ

<https://www.packtpub.com/application-development/mastering-rabbitmq>

Lead Engineer @ HERE Technologies **Chicago, IL** **2010 - 2015**

Scala / Java / Groovy / Perl / Akka / Akka Cluster / Spark / Apache Camel / Redis / Ehcache / RabbitMQ / Puppet AWS: EMR

- Led team of engineers to build Akka based actor system for real-time traffic prediction
- Converted historical traffic data processing from Hadoop MapReduce to Spark
- Worked with researchers to improve performance and quality of traffic algorithms, map matching, vehicle routing, and travel time allocation
- Led engineering on project 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
- Created data pipeline to streamline use of large dataset to automate testing of new datasets and measure quality changes year over year

Lead Engineer @ University of Chicago **Chicago, IL** **2009 - 2010**

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

- Recommended architecture for application and data warehouse development
- Implemented PL-SQL enhancements to SunGard Advance

Senior Engineer @ Gundersen **La Crosse, WI** **2008 - 2009**

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

- Architected and developed application to perform batch migration of 10TB+ of historical medical imagery
- Developed algorithm for patient matching and deduplication from multiple clinics

Lead Engineer @ UW-Madison **Madison, WI** **1994 - 2008**

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

- Led team of 10 developers in creation of several interdependent J2EE based services
- Designed, implemented and supported integration of Oracle Financial Apps into existing services
- Developed web-based scheduling and time recording tool, including recurring events, email notifications, work efficiency, and payroll reports

Education

Bachelor of Science in Physics @ UW-Madison **Madison, WI** **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>