

# Steve Fosdal

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## Objective

As a software engineer with more than 20 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 / SQL / JSON / RegEx / Perl

**Frameworks:** Spark / Spark Streaming / Akka / Akka HTTP / Akka Cluster / Apache Camel / Scalatra / ScalaTest / ScalaCheck / ScalaMock / gRPC

**Storage:** Kafka / RabbitMQ / Cassandra / ScyllaDB / MongoDB / MySQL / Postgres / Oracle

**Tools:** IntelliJ / DataGrip / CircleCI / Jenkins / Travis / Docker / Kubernetes / GitHub / GitLab / sbt / ssh / DataDog / Splunk

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

## Experience

### Senior Technical Lead, Distributed Systems @ Tubi

Remote

2020 - Present

Scala / Akka / ScyllaDB / Postgres / Docker / Kubernetes / AWS-Kinesis / gRPC

- Support and Enhance ML Pipeline
- Onboard new ML experiments
- Support and Enhance in-house A/B Switchback testing platform

### Staff Engineer @ The Climate Corporation

Seattle, WA

2019 - 2020

Scala / Clojure / Java / 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 Spark
- 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
- Worked with researchers to improve performance and quality of traffic algorithms, map matching, vehicle routing, and travel time allocation
- Lead architect in the redesign of data collection framework

### **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
- 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**

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### **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>