

Michael Slinn

Half Moon Bay, CA 94019

Mobile: 650-678-2285

Canadian Citizen with Green Card

mshinn@mshinn.com | <http://linkedin.com/in/mshinn>

Distinguished Engineer

- Author of advanced software design books and training videos that incorporate informative, insightful, cost-effective and interesting courseware.
- Identify and negotiate win-win contracts with business partners, course authors and clients.
- Lead developer of a custom-built web course authoring and delivery platform incorporating e-commerce, responsible for platform architecture and agile project management.
- Lead instructor.
- AI innovator, performed original research regarding artificial emotion. The second generation prototype features a custom domain-specific language (DSL) for populating a meta-model, and uses event streaming for very large scale deployment of an eventually consistent system. Utilizes Kafka Streaming, Akka Streaming and CRDTs for eventual consistency for environments with a high volume of events. Evaluated Akka vs. Kafka Streaming, and Cassandra vs. Scylla vs. Dynamo.

I Wrote This Much Code in the Last 365 Days

... and [here is the program](#) I wrote that generated the following statistics.

Language	Lines added	Lines deleted	Net change
Scala	+92,349	-66,961	+25,388
SBT	+7,931	-2,709	+5,222
Java	+23,955	-20,597	+3,358
Markdown	+5,299	-2,597	+2,702
HTML	+8,880	-6,669	+2,211
Python	+371	0	+371
Properties	+566	-521	+45
MS-DOS batch	+36	0	+36
Bash shell	+8	0	+8
JavaScript	+2,682	-93,854	-91,172
Total	+142,077	-193,908	-51,831

Technology Summary

Scala, AWS (Alexa, CloudFront, IAM, Lex, Polly, Rekoginzer, Route 53, S3, and Elastic Transcoder), Apache Kafka, Apache Spark/Streaming, Play Framework, Akka, Slick, Java, Postgres, JavaScript, JSON, JQuery, Bootstrap, CSS, HTML, XML, various Linux, Windows, Mac OS X, J2EE, C, C++, Python, MySQL, integration with PayPal, Stripe and MailChimp.

Professional Experience

Micronautics Research – Half Moon Bay, CA

Founder, 2006 to Present

Research technology trends, including AI trends, and identify opportunities. Use Scala and related technology with the Kanban agile process to develop and maintain a web application for the authoring and delivery of online training. Manage course authors, subcontractors, administrative staff and clients. Act as an expert witness in multiple engagements in US and Europe, including several high-profile *inter partes* patent reviews; see [Expert Resume](#) for more detail.

Mentor

1993 to Present

- Mentored founders and executives, and worked with all levels of employees of companies that were later sold; buyers include IBM, Microsoft, NBC, and AltaVista.
- Former technical policy advisor to British Columbia Premier's task force
- Former a startup advisor in association with Canadian National Research Council and the Silicon Valley office of the Canadian Consulate.

Publications

- Author of 3 books on JVM-based concurrency and distributed systems, visible at [SlinnBooks.com](#).
- Published over 50 technical articles in software and engineering magazines
- Gave dozens of presentations at trade conferences and to user groups.
- Technical reviewer for 15 O'Reilly Java-related books.
- Sold five technical articles to Sun Microsystems for their Java web site (<http://java.sun.com>). Topics included internationalization, JavaBeans, CORBA, and two human-interest pieces.

Open Source Contributor

189 projects on GitHub, including:

Amazon Alexa

2017

Rewrote portions of the Alexa Cookbook and copy edited the entire document.

Eventuate (Event Sourcing and CRDTs)

2017

Rewrote and updated the sample programs and accompanying documentation.

Apache Spark

2016

Rewrote the Databricks Spark-Twitter-Lang-Classifier reference application and updated it from Spark 1.4/Scala 2.10 to Spark 2.0/Scala 2.12. Assisted with updating the other Java and Scala reference applications.

Play Framework and related

2012-present

Wrote PFView, Play-Access-Logger, Scalacourses-Play-Utils, Urlettes, Html-Form-Scala, Has-Value, Has-Id, Play21-Template, Play22-Template, Play23-Template Play24-Template and Play25-Template, Hanuman. Contributed improvements and/or documentation for Play Framework, Play-Silhouette, Play-Silhouette-Seed and WebJars.

Scala Language and related

2011-present

Wrote git-stats-scala, hacker-rank, quill-cache, quick-gen, Scalacourses-Utils, Square-API-Facade. Bug reports and improved documentation. Contributed code and/or documentation to Better-Files, Commander-Scala, Currency, ScalaPB, Typesafe Config, SBT, SBT-Native-Packager, Dependency-Report.

Akka related

2011-present

Wrote TestPublishApp, TestPublishLib, AkkaFilter, AkkaSampleRemote, ZeroMQ-Scala-Binding.

AWS related

2011-present

Wrote AWS-Lib-Scala, Cracker, PVideo-Shared, AWSMirror, GitS3Glue. Updated Alexa-Cookbook docs.

Java

Contributed to the documentation for Tomcat, Sun Microsystems' open source reference platform for Java servlets.

Miscellaneous

2011-present

Wrote PushToNagios, Barcode, Meetup-Roll. Contributed code and/or documentation to Hazelcast-Scala.

Education & Credentials

Bachelor of Electrical Engineering from Carleton University, Ottawa, Canada.
Computing Systems minor.

Accredited by the Association of Professional Engineers and Geologists of British Columbia as a Professional Engineer; did not maintain status after immigrating to USA.

Organized or attended hundreds of seminars pertaining to AI, machine learning, event-driven and scalable systems, Scala and related technology, etc.

Volunteer Work

Track Manager, Scala by the Bay 2016

Founder, SF Scala Meetup (currently largest Scala user group world-wide) 2011 – 2012

Principal Organizer of Bay Area Scala Enthusiasts (grew to largest user group world-wide) 2011 – 2013

Chairman of Silicon Valley Ruby Conference (largest Ruby event world-wide) 2006 – 2007

Co-founder and past Chairman of Vancouver AutoCAD Users Society (grew to largest AutoCAD user group world-wide) 1986 – 1992

Volunteer with BC Science World, visited elementary and high schools promoting awareness in science and engineering 1988 – 1992

Member of the IEEE Vancouver Chapter Steering Committee 1982 – 1985

Ham Radio operator, General class; participate in local emergency drills.