Mike Funk

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Objektwerks

2013.1 – Present | Objektwerks, Cape Haze, FL | Consultant | Scala Engineer ~ Design and build distributed and desktop apps. [Scala 3/2, Spark, ScalaJS, ScalaFX, Swing, Laminar, JFreeChart, Akka, Akka-Http, Quill, PostgreSQL, uPickle, Sbt, Git]

- 1. Objektwerks, Cape Haze, FL | Open Source | Scala Engineer ~ Designed and built open source, cross-platform health charts desktop app, sourced by csv/txt files, targeting 11 charts. [Scala 2.13, Swing, JFreeCharts, Sbt, Git] (https://github.com/objektwerks/healthcharts)
- 2. Baptist Health South Florida, Miami, FL | Consultant | Scala Engineer ~ Designed and built Spark Job with embedded Akka-Http rest server that processes diet data requests via a Spark cluster. SSL-enabled Akka-Http rest app. [Scala 2.12, Spark 3, Akka-Http 10, uPickle 1.2, Sbt, Git]
- 3. FormsLogic, Chicago, IL | Remote Consultant | Scala Engineer ~ Built new web service calls and enhanced pdf reports for a form-driven workflow app. [Scala 2.11, Play 2, Postgresql 9, Anorm, Jaspersoft Studio, Sbt, Git]
- 4. NYISO, Albany, NY | Remote Consultant | Scala Engineer ~ Built proprietary workflow-directed Spark batch jobs sourced, joined, transformed and sinked from and to multiple Delta Lake date partitioned parquet tables. [Scala 2.12, Spark 2.4, Delta Lake 0.5, Cats 2.1, AWS-S3, Sbt, Git]
- 5. Baptist Health South Florida, Miami, FL | Consultant | Scala Engineer ~ Designed and built Kafka-Spark-MapR streaming job; BlackBaud rest service; Cerner rest service; and multiple Spark-Hive ETL apps. [Scala 2.12, Spark 2.4, Hive 3, Akka-Http 10, ScalikeJdbc 3.4, uPickle 1.0, Sbt, Git, Azure]
- 6. Florida Blue, Jacksonville, FL | Consultant | Scala Engineer ~ Designed and built HBase-Rules-DB2 Spark pipeline on dataset of HBase row keys scanned pre-Spark session. HBase client, via distributed dataset foreach, gets Json by row key. Json is parsed into Scala and update rules applied to DB2 tables. [Scala 2.11, Spark 2.3, ScalikeJdbc, PlayJson, Sbt, Gradle, GitLab]
- 7. Starbucks, Seattle, WA | Consultant | Scala Engineer ~ Designed and built customer order history event-driven pipelines, defined by web service sources, event flows and web service sinks. Built custom Akka-Http directives and Scala-Xml bindings. [Scala 2.12, Azure EventHub, Circe 0.8, Cats 1.0, Cassandra 3.5, Sbt, Git]
- 8. Objektwerks, Cape Haze, FL | Open Source | Scala Engineer ~ Designed and built open source, cross-platform homeschool management desktop app with H2 store. [Scala 2.13, ScalaFX 14-R19, H2, Sbt, Git] (https://github.com/objektwerks/homeschool)
- 9. Objektwerks, Cape Haze, FL | Open Source | Scala Engineer ~ Designed and built open source, cross-platform pool management desktop app with H2 store. [Scala 2.13, ScalaFX 14-R19, H2, Sbt, Git] (https://github.com/objektwerks/poolmate)
- 10. Bottle Rocket, Addison, TX | Consultant | Scala Engineer ~ Designed and built Mongodb-Csv-Sftp-Smtp integration app for national fast-food chain. Closed multiple Jira tickets. [Scala 2.11, ReactiveMongo, Spray, Sbt, Git]
- 11. HERE, Chicago, IL | Consultant | Scala Engineer ~ Designed and built Akka cluster driven by RabbitMq and dynamic cluster-aware master-worker actor pairs that validate map data consumed from an AWS rest service. Built map data store change listener; RabbitMq connector; and Akka-Http and Akka-Streams queue routers. [Scala 2.11, PlayJSON, Sbt, Git]
- 12. Adjoy, Tampa, FL | Consultant | Scala Engineer ~ Designed and built Kafka-Spark-Cassandra prototypes. [Scala 2.11, Sbt, Git]
- 13. MetiStream, Washington, DC | Consultant | Scala Engineer ~ Designed and built Kafka-Spark-Cassandra ScalaFX simulator. [Scala 2.11, Sbt, Git]
- 14. Time Warner, Denver, CO | Consultant | Scala Engineer ~ Designed and built Kafka-Spark-Hdfs streaming prototype. [Scala 2.11, Sbt, Git]

Javawerks

1997.3 – 2012.12 | Javawerks, Clearwater, FL | Consultant | Java Engineer ~ Designed and built Java apps and components. [Java 5, J2EE, Spring, Hibernate, Swing, Ant, Maven, SVN, Scrum]

- 1. Mad Mobile, FL | Startup | Java Engineer ~ Designed and built single page web app and NodeJs-websocket server, allowing for graphical selection of Html5 elements and construction of Css3 selectors, persisted in MongoDB as named queries, executable by remote mobile web clients for dynamic UI model-based rendering. Rebuilt with Java, JavaFX and Spring Rest due to browser constraints and JS performance and memory leak issues. [Java 7, JPA, Hibernate, H2, jQuery, Jsdom, Socket.io, Maven, Git]
- 2. Catalina Marketing, FL | Consultant | Java Engineer ~ Co-architected distributed hierarchical customer ID analytics solution using Pentaho and JAX-WS web services, targeting multiple enterprise data sources and sinks. Designed and built Hadoop prototype. [Java 6, Tomcat, Oracle, Spring, JPA, Hibernate, Axis2, Jibix, Maven, Jenkins, SVN]
- 3. Disney World, FL | Consultant | Java Engineer ~ Implemented enhancements to J2EE room availability and inventory apps. Designed and built GWT inventory analysis client. [Java 5, JBoss, Oracle, Spring, JPA, Hibernate, RichFaces, Struts, Maven, Clearcase]
- 4. NDR, FL | Consultant | Java Engineer ~ Designed and built Swing-Spring DI Historical Stock Screener client, composed of financial criteria, interactive models, charts and tables, Spring-Hibernate generic entity manager, JPA entities and Spring HttpInvoker services. Designed and built daily Russell Index service with Spring Batch, Spring-Hibernate generic entity manager, JPA entities and JMX attributes. [Java 6, Tomcat, SwingX, JFreeChart, POI, Ehcache, Maven, Nexus, Hudson, SVN]
- 5. IHG, GA | Consultant | Java Engineer ~ Designed and built Spring-Hibernate generic entity manager, JPA/JAXB entities, MDPs, generic JAXB marshaller, pooled XSD validator/XSLT transformer, POX/JAX-WS/JMS services, JMX beans/aspects, JMS queue transferer and URI archiver. Designed and built ServiceMix, OSGi/SpringDM and Spring Integration prototypes. [Java 6, Groovy, Resin, Oracle, MQ, ActiveMQ, CXF, Quartz, Maven, Hudson, SVN, Scrum]
- 6. Disney World, FL | Consultant | Java Engineer ~ Designed and built Spring-JPA generic entity manager and JPA entities for J2EE reservation app. Designed and built inventory adjustment components, JAX-WS services, MDPs, JMX beans, JIBIX bindings, AOP retry strategies and auditors. [Java 5, JBoss, Oracle, Hibernate, Drools, MQ, CXF, Quartz, RichFaces, Maven, Scrum]
- 7. Qualcomm, CA | Consultant | Java Engineer ~ Designed and built Mule components, applications and POX web services for mobile billing integration with AT&T and Verizon. Designed and built JMX beans, AOP retry strategies and auditors. [Java 6, JBoss, Oracle, Oracle-JMS, Spring, XStream, Maven, SVN, Scrum]
- 8. FPL, FL, Consultant, Java Engineer: Designed and built Swing components and features for energy trading app. [Java 6, Tomcat, Oracle, SwingX, SVN]
- 9. CDC, GA | Consultant | Java Engineer ~ Designed and built Gigaspaces master-worker space composed of Spring beans that build composite reports via executors, callables and futures. Designed and built Terracotta prototype. [Java 5, Oracle, Mayen, SVN]
- 10. KnowledgeStorm, GA | Consultant | Java Engineer ~ Designed and built J2EE app for lifecycle-management of Nutch-Lucene indexes across JBoss cluster via Swing-Spring DI client. AOP injected custom Nutch features. Designed and built Nutch sentence-fragment summarizer. Added compression/caching to Axis web service, yielding sub-second response times. [Java 5, Oracle, Hibernate, Maven, SVN, Scrum]
- 11. State Government, WA | Consultant | Java Engineer ~ Team-designed and -built J2EE criminal record web services. Built generic entity manager, entities and Swing-Hibernate query tool. [Java 5, JBoss, DB2, Axis, XStream, Maven, Perforce, CC, Scrum]
- 12. MarketGrader, FL | Startup | Java Engineer ~ Designed and built J2EE stock report app, Swing client, Java2D Swing stock component and open source Quartz DailyCalendar. [Java 5, JBoss, MSSQL, DynamicPdf, S&P Xpressfeed, Ant, CVS, XP] (https://tinyurl.com/y7frm74e)
- 13. Fedex, FL | Consultant | Java Engineer ~ Designed and built JAXM web service to interoperate with IBM CICS, MQ and DB2. [Java, WebLogic, XmlBeans, Ant, CVS]
- 14. PWC, FL | Consultant | Java Engineer ~ Designed and built J2EE web app, allowing for development and lifecycle management of surveys, polls and tests. [Java, WebLogic, Oracle, Struts, Ant, CVS]

- 15. Nielsen Media, FL | Employee | Java Engineer ~ Designed and built Swing TV programming applet, workflow components, auditing aspects and ILOG/JRules prototypes. [Java, Weblogic, Oracle, Ant, CVS, XP]
- 16. US Navy, VA | Consultant | Java Engineer ~ Designed and built J2EE web app, allowing US Navy Seabees to manage global container logistics and integrate with US Navy accounting via POX web service. [Java, Jetty, MySql, Struts, Castor, Ant, VSS]
- 17. OTG, FL | Startup | Java Engineer ~ Team-designed and -built EAI product, composed of Jini services that execute integration components via JavaSpace messaging, lifecycle-managed by Swing client and Jini services. [Java, Tomcat, Ant, CVS, XP]
- 18. BetweenMarkets, TX | Startup | Java Engineer ~ Team-designed and -built eMarketplace product, composed of Jini services that execute SOAP web services, lifecycle-managed by Swing client and Jini services. [Java, Tomcat, Ant, CVS, XP]
- 19. Ariba, FL | Startup | Java Engineer ~ Team-designed and -built Ariba UDDI implementation in cooperation with IBM and Microsoft. Implemented Tradex product enhancements. [Java, Weblogic, Oracle, Ant, CVS]
- 20. Identitech, FL | Consultant | Java Engineer ~ Designed and built Swing property sheet component, common property editors and RMI document management apps. [Java, MySql, CVS]
- 21. Kinetoscope, FL | Startup | Java Engineer ~ Team-designed and -built market analysis tool, composed of AWT client, RMI server and ObjectStore database. [Java]

Training ~ Machine Learning A-Z: Hands-on Python & R in Data Science [Udemy : 2018]

Skills ~ Scala - 7, Java - 16, Swing - 10, Spring - 8, Hibernate - 8, JPA - 6, Web - 3, Akka - 2, Akka-Http - 2, Spark - 2

Degree ~ University of Maryland | BA | Asian Studies, International Business

US Navy ~ Intelligence | Alaska, Diego Garcia, Guam, Japan, Washington D.C.

Laptop ~ Macbook Air 13", 16GB. Require similar model for work with Admin rights.

Environment ~ See github.com/objektwerks/scala Environment section for details.