**ALLAN JACOBS**

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**SKILLS**

* **Programming languages:** Java, Scala, JavaScript, SQL, HTML and CSS, PHP, Python
* **Frameworks:** d3.js, ggplot, Numpy, Pandas, Play, R, RStudio, Scikit-Learn, SVG.
* **Databases:** Cassandra, MongoDB, MySQL, Oracle.
* **Other skills:** Basic exploratory and inferential statistics. Artificial neural networks. Machine learning.

##### **EDUCATION**

* **Data Science Nanodegree** Udacity
* **Other coursework** Functional Programming in Scala (Coursera), Intro to Machine Learning (Coursera), Algorithms 2 (Coursera), Oracle 11g Database Administration I, Sun Certified Programmer - Java 5
* **Doctor of Philosophy, Geophysics** Stanford University, Stanford, California
* **Bachelor of Science, Physics** Massachusetts Institute of Technology, Cambridge, Massachusetts

**WORK EXPERIENCE**

**Layer Eight Security  Fremont, CA** ** *Feb 2014-Present*  Senior Software Engineer**

Developed Scala server back-end code. Developed REST interfaces for the front end. Designed and coded a bot detector using header information and browser navigation statistics. Designed threat detection algorithms for the next release of the product. Provided data designs for MySQL and Cassandra databases.

**Sony Network Entertainment,  San Francisco, CA  *April 2012-Feb 2014*  Senior Software Engineer**

Maintained and extended a JavaScript test framework for PlayStation 3 Webkit-based APIs. Maintained and extended a Java test framework for Sony Network Entertainment's storefronts.

**Nelson Technology / Yahoo!  Sunnyvale, CA  *May 2011-April 2012*  Senior Integration Engineer**

Analyzed test results, developed analysis software, and wrote tests for Yahoo's Advertising Platform Group.

**Verdestrada, Inc.  Palo Alto, CA**  ***Nov******2009-May 2011*  Principal Software Developer**

Launched a business centered around implementing a multi-tenant identity server for use in the cloud utilizing Sun Microsystem’s Open Identity. The product used Java, MySQL, and LDAP.

**BridgeStream, Inc. / Provade Direct / Oracle Corporation,  Redwood Shores, CA**  ***Nov******2007-Nov 2009*  Software Engineer in Test**

Monitored Oracle Role Manager performance and quality via diagnostics centered on data initialization.

**Searchforce, Inc.  San Mateo, California**  ***Jan******2007-Aug 2007*  Software Developer**

Implementated a back end for a bid management system. Used Java, Hibernate, Struts, and Oracle .

**Sun Microsystems  Santa Clara, CA**  ***Jan******1996-Sept 2006*  Principal Member of the Technical Staff**

Wrote software specifications for the Java Enterprise Systems (JES) installer. Served as the overall tech lead for JES for one release. Built a test harness used for most Java VM testing.

**Applied Parallel Research  Topanga, CA**  ***1992-1996*  Staff Engineer**

Developed a parallel computer (MIMD / SIMD) Fortran runtime library. Wrote a parallel I/O library for IBM.

##### **PROJECTS**

* <https://github.com/system4t>, a pair of JavaScript portability libraries.
* <https://github.com/scala/scala-swing>, a Scala layer above Java Swing.