ALLAN JACOBS

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SKILLS

- **Programming languages:** C, Fortran, HTML and CSS, Java, JavaScript, PHP, Play, Python, SQL

- **Frameworks:** d3.js, ggplot, Numpy, Pandas, 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), 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
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- **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 backend code. Developed REST interfaces for the front end. Designed and coded a bot detector using header information and browser navigation statistics. Designed threat detection algoriths 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.

Provade Direct / Oracle Corporation, • **Redwood Shores, CA •** *Nov 2007-Nov 2009* **• Software Engineer in Test, BridgeStream, Inc. •** **San Francisco, CA •** *Nov 2007* (purchased by Oracle)
Monitored Oracle Role Manager performance and quality via diagnostics centered on data initialization.

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