

**Deepalakshmi Thiagarajan**

[deepa.name@gmail.com](mailto:deepa.name@gmail.com)

(650) 393-0686

<http://deepa.site>

**ORACLE®**

**Certified Professional**

Java Engineer in quest of an opportunity to solve challenging software engineering problems with a passion to use the right tools and best practices

Java SE 8 Programmer

**Skillset**

Programming Languages and Frameworks	Java, Spring, Hibernate, Python, Django
Web Technologies	HTML, CSS, Typescript, AngularJS
Mobile Technologies	Android SDK
Database/storage Technologies	Oracle, Apache Cassandra, MongoDB
Tools and Networking	HTTP, DNS, TCP, IP, Wireshark, Git

**Akamai Technologies Inc., Santa Clara, California**

***Senior Software Development Engineer in Test [September 2016 to present]***

***Software Development Engineer in Test II [June 2015 to September 2016]***

***Software Development Engineer in Test [June 2013 to June 2015]***

- Responsible for developing test framework and testing the REST APIs of the Identity and Access Management (IDM) application of the Akamai portal using Java. IDM allows customers to manage their Akamai users and control their access to the portal. The test project takes inputs from JSON files and uses REST-Assured and TestNg to validate the REST APIs against data fetched from databases using JDBC.
- Involved in developing automation tests in Java for IDM web application using Selenium Web Driver
- Contributed to Akamai's open source tools which help customers access Akamai information
- Tested Akamai's REST APIs exposed through OPEN using Akamai SDKs written in Java and Python
- Performance tested REST APIs using Scala and Gatling
- Performed security testing for broken authentication/authorization, cross-site scripting, and SQL injection
- Mentoring and guiding new team members

Technologies: Java, TestNG, REST-Assured, Oracle, JDBC, Cassandra, shell scripting, Git, Jenkins, Gatling

**Hackathon projects at Akamai**

**Recommendation System for Akamai Products:** The system uses machine learning to understand the existing customer – product relationship and uses this to recommend new products to customers. The system was implemented based on user-based collaborative filtering using Apache Mahout in Java.

**Android application:** The application provides some functionality of Akamai's portal as a native Android application. It takes Akamai's custom {OPEN} authentication/authorization credentials from the user, makes REST requests to one of the available service endpoints, and displays the response to the user.

**Web Engineer at Shutterfly, Inc., Redwood City, CA [February 2013 to May 2013]**

Responsible for the maintenance of web application on Java EE stack using JSP, Servlets and Spring on the backend and HTML, CSS and JavaScript on the frontend. As part of my job, I was responsible for interacting with cross-functional teams to add new products to Shutterfly website.

**Intern at Akamai Technologies, Inc., San Mateo, CA [June 2012 to November 2012]**

- Responsible for the design and development of a text parser in Perl. The parser reads millions of URLs present in input log files, identifies and isolates URLs satisfying specified criteria.

- Responsible for fixing, refactoring, and migrating test cases validating functionalities of Akamai Web Portal, from Selenium 1 to Selenium 2 (Web Driver).

### Education and Certifications

- Master of Science in Software Engineering with Enterprise Software specialization at San Jose State University [August 2011 to May 2013]
- Master of Science in Managing Information Technology at Sullivan University [June 2015 to September 2016]
- Bachelor of Technology in Information Technology, Anna University, Chennai, India [August 2007 to May 2011]
- Oracle Certified Professional Java SE 8 Programmer [December 2017]

### Graduate and Personal Projects

1. **Chatroom application using Spring 5 and AngularJS:** An online chatroom built using the WebSocket protocol, using Reactive Spring and AngularJS where multiple users can connect and post messages in real time.
2. **Android Application for barcode advertisement:** The application decodes and displays an ad when an appropriate QR-Code is scanned through the camera. The application consumes existing REST APIs to submit the barcode and retrieve a multimedia ad, and presents it to the user.  
Technologies: Android SDK – Camera, Phone, SMS and GPS APIs; REST Web Services
3. **Stock Prediction System:** The crawler component of the system gathered financial news and stock data. This data was processed, stored and indexed for search. Machine learning algorithms were used to predict stock prices and presented to the user.  
Technologies: Java, Apache Nutch, Apache Solr, SolrJ, Apache Cassandra, Hector, Weka
4. **Tic-Tac-Toe:** The front-end exposed a board on which players can mark on their turns. The server maintained multiple sessions of pairs of players playing the game against each other, validated players' moves and calculated winners.  
Technologies: Java, Java Web Services (JAX-WS), MySQL, JSP / Servlets, JavaScript
5. **Distributed Search Application on LAMP platform:** The application used Gearman distributed application framework to divide the task of crawling, searching and indexing among multiple workers, which are capable of executing their tasks concurrently.  
Technologies: Gearman, Sphinx Search Server, Apache Web Server, MySQL, Linux and PHP
6. **RESTful web application for Social Networking:** The application enables users to sign up, add friends, send and receive private messages, and post microblogs. These functionalities were implemented following MVC pattern and as REST web services. The application consumes these web services.  
Technologies: Ruby on Rails, REST, SQLite
7. **Multitenant SaaS Application:** This application was a Learning Management System designed to be used by different universities. Each university was a tenant and can customize the application for their users. The application was deployed in Amazon EC2.  
Technologies: C#, MySQL, Amazon EC2
8. **Healthcare Networking application using polyglot persistence:** The first part of the project involved an analysis of performances of MySQL, MongoDB and Cassandra for different data operations. Based on these metrics, a Social Networking application was designed with polyglot persistence, developed using Java EE technologies and deployed on Amazon EC2. Emphasis was placed in building a suitable data model to efficiently store and operate on both structured and unstructured data.  
Technologies: MongoDB, Cassandra, MySQL, Java, REST, JSP / Servlets, CSS, JavaScript, JQuery, Amazon EC2