

Vignesh Raja

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[PROFILE] Masters student at the University of Illinois interested in backend development with focuses on machine learning and distributed systems. Looking for full-time opportunities at impactful companies.

[EDUCATION] **University of Illinois at Urbana Champaign** :: *B.S. Computer Science, 2011-2015*
University of Illinois at Urbana Champaign :: *Master of Computer Science, SP 2015 - FA 2015*
Relevant Coursework: Text Information Systems, Artificial Intelligence, Database Systems, Distributed Systems, Natural Language Processing, Machine Learning, Communication Networks, Senior Thesis, Computer Vision, Machine Translation, Compiler Construction*, Machine Learning for Signal Processing*, Intro to Parallel Programming*

[EXPERIENCE] **Optimizely, Inc.** :: *Software Engineer Intern :: San Francisco, CA :: Summer 2015*

- Member of Ecosystem team whose purpose is to integrate 3rd party applications into Optimizely.
- Built the foundation of a new Google AdWords integration which allows users to create experiment audiences from AdWords Campaigns, Ad Groups, and Ads.
- Worked with Google App Engine (Python), Vue.js for templating, and NuclearJS, Optimizely's Flux implementation.

Salesforce.com :: *Software Development Intern :: San Francisco, CA :: Summer 2014*

- Built OAuth & RBAC protected, versioned REST APIs to manage OAuth clients who use the Salesforce Data.com API. Developed a frontend in AngularJS for these APIs.
- For a company hackathon, built a REST API that generates an ideal customer profile with Weka, then makes calls to the Data.com Connect API to get contacts that fit the constraints from the profile. Customers similar to ideal profile are visualized on a heat map of the United States.

EMC Corporation :: *Software Engineering Intern :: Irvine, CA :: Summer 2012 & 2013*

- Wrote Bash scripts to auto-configure centralized SSL logging (rsyslog) on various nodes of the vCloud. Wrote Puppet modules to run these scripts on virtual machine deployment to improve consumer usability.
- Wrote Java application to consume and appropriately respond to various status messages from a RabbitMQ server queue.

[PROJECTS] **NBA Search** :: github.com/vraja2/nba-search

- Uses data from Basketball Reference to allow for complex queries to be answered efficiently (e.g "Teammates of Michael Jordan who averaged 20-25 points and 0-5 rebounds.")
- Scraped information with Scrapy and serialized data with Pickle for easy loading on app startup.
- Currently building a webapp with Flask and implementing faceted search for scraped data with VisualSearch.js

Storage Exchange :: github.com/mresposito/storageexchange

- A website to allow college students to trade storage spaces around the United States. Built with Scala and Play Framework. Worked in team of 4.
- Built models to store university and location data in MySQL database. On application startup, university data injected into database from a JSON file.
- Used Typeahead.js to auto-complete universities during signup and Google Maps API to suggest address information when making storage post.

[HONORS] **Chancellor's Scholar:** Part of the top 2% of students in every incoming class of ~7500 students.
James Scholar: Departmental honors from the College of Engineering.

[SKILLS] **Programming:**
Java :: Python :: C :: Scala :: C++ :: OCaml :: MySQL :: VMware vSphere SDK :: VMware vCloud SDK :: Bash :: Puppet :: Spring Framework :: RabbitMQ :: Maven :: Git :: Subversion :: L^AT_EX
Operating Systems:
OS X :: Windows :: Linux distributions :: VMware ESXi