

Vignesh Raja

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[PROFILE]

Senior at the University of Illinois interested in backend development with focuses on machine learning and distributed systems. Looking for internship/co-op opportunities at impactful companies.

[EDUCATION]

University of Illinois at Urbana Champaign :: *B.S. Computer Science, 2011-2015*

Relevant Coursework: Data Structures, Computer Architecture, Text Information Systems, Systems Programming, Theory of Computation, Fundamental Algorithms, Artificial Intelligence, Programming Studio, Database Systems, Programming Languages and Compilers, Distributed Systems, Natural Language Processing*, Machine Learning*, Communication Networks*, Numerical Methods*, Senior Thesis*

University of Illinois at Urbana Champaign :: *Master of Computer Science, SP 2015 - FA 2015*

[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.

Facebook/Twitter Voice Recognition :: *github.com/vraja2/fb-twitter-voice-recognition*

- Used Objective C and NSSpeechRecognizer to build a Facebook/Twitter voice recognition application for OS X.
- Wrote Python scripts that use the Facebook Graph API and Twython to execute commands.

[EXPERIENCE]

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.

UCLA Center for Embedded Networked Sensing :: *Research Intern :: Los Angeles, CA :: Summer 2009 & 2010*

- Programmed research-oriented Android applications for the Google G1 smartphone.

[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