REVON MATHEWS

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EDUCATION

MASTERS IN COMPUTER SCIENCE Jan 2013 - Dec 2015
Northeastern University, Boston, MA (GPA 3.5)

BACHELORS IN COMPUTER SCIENCE AND ENGINEERING
Toc H Inst. of Science & Tech., Kochi, India (GPA 3.73)

WORK EXPERIENCE

INTEL | Software engineer | San Antonio, TX
Full-Stack developer | March 2016 - present

- Developer on the OpenStack Innovation Center team, which empowers enterprises to develop a reliable, self-service portal that can federate and manage an elastic infrastructure of compute, storage and network resources using open source technologies.
- Developing features for enhancing and optimizing Horizon which allows easy interaction with OpenStack services, enabling users to provision resources and monitor utilization, removing IT as a bottle during critical projects and events.

INTUIT | Software engineer intern | Menlo Park, CA
Full-stack developer | May - August 2014

- Built a product that would allow the engineering community to conduct extensive trend analysis of an upcoming release. This in turn would enable them to iteratively build a rock solid production system.
- Developed an analytics engine to compute and display the performance metrics of Jenkins job data over time using Amcharts. Used AngularJS, Twitter Bootstrap and MongoDB.
- Designed and wrote RESTFUL APIs with Node.js and Express.js using Mongoose as ORM and authored test cases and Mocha test framework running on Node.js.

GMO LLC. | Application engineer intern | Boston, MA
AE Intern | Jan 2014 – May 2014

- Automated tasks, MSI installation, generated customized reports from LDAP directory using PowerShell Scripts.

CTS | Programmer Analyst | Kochi, India
Full-stack developer | Oct 2010 - Aug 2012

- Developed a hoteling app for directors and VPs of the organization that facilitated immediate booking of resources and included customized display of booking details.
- Improved the performance of modules dealing with voluminous data by optimizing code and stored procedures, thus reducing the rendering time of the resource availability list by 80%. Contributed useful features to the system using ASP.NET, WCF and LINQ.

SKILLS

PROGRAMMING	Java, C#, Python, PowerShell, Scheme, R
WEB TECHNOLOGIES	HTML/CSS, XML, JQuery, JavaScript, AngularJS
FRAMEWORKS	Express, Mongoose, Mocha, .NET, LINQ, JDBC, JPA, Django, Node.js
DATABASES	MySQL, MS SQL Server, NoSQL (MongoDB)

PROJECTS

YELP TIME-TO-ELITE (R prog.) Dec 2015
- Performed a comparative analysis of the YELP User dataset (masked) after cleaning the data, to estimate the time taken for a user to achieve elite status (thus getting special privileges), using linear regression and decision tree methods.

MAP REDUCE FRAMEWORK (Java) Jun 2015
- Implemented a distributed Map reduce framework similar to Hadoop to get an in-depth understanding of its architecture and working.
- Did a comparative analysis with varying parameters and against the existing system to understand what design considerations most impact the performance.

OPERATING SYSTEMS AND KERNEL DESIGN (C) Mar 2015
- User Programs - Implemented system calls to allow user programs to interact with kernel and perform I/O operations.
- Virtual Memory - Extended Pintos OS functionality to support demand paging, data swapping to and from disk.

INFORMATION RETRIEVAL (Python, Java) Oct 2014
- **Sequential Page Rank**: Implemented iterative Page Rank (PR) algorithm, to compute PR on a collection of 183k, web documents using an in-link representation of the web graph. Listed perplexity values obtained until convergence of PR values and analyzed the PR results obtained.
- **Web Crawler**: Analyzed focused vs unfocused crawling - Implemented a crawler to crawl to a configurable depth (or till key phrase was not found) from a seed page. The crawler aggregated a list of html and PDF links and supported a delayed request mechanism.

AWARDS

- 'BOOTSTRAP' innovation application development - 4th place, Cognizant India.
- 'APPLAUDE DE ACCOMPLICE' at Cognizant Technology Solutions for 'VMS'.
- 'BEST PROCESS INNOVATION' - 'VMS' at CTS and 'BEST EXECUTED PROJECT' - 'Admin AVM' at CTS EAS.