Abhishek Ravi Chandran

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EDUCATION

Master of Science in Computer Science, Northeastern University, Boston, MA (GPA: 3.58)   Jan 2015 – Dec 2016
Courses: Algorithms, Parallel Data Processing in MapReduce, Programming Design Paradigms, Managing Software Dev, Advanced Software Development, Web Development, Fundamentals of Computer Networks

Bachelor of Technology in Information Technology, Anna University, India   Jun 2006 – Jun 2009

PROJECTS(https://github.com/abhishekravi)

- **Custom MapReduce** (Java Network Programming, Amazon S3, AWS EC2, Maven)
  Implemented a distributed parallel processing MapReduce framework with FCFS job scheduler and fault tolerance.
- **Airline Delay Prediction** (Java, Hadoop, Weka, Amazon EMR, S3, Markdown, Maven)
  Implemented MapReduce programs to predict flight delay on 3GB data, achieved 53% acc. using Random forests.
- **Website Maker** (MEAN Stack, Bootstrap, REST APIs)
  Developed a web app to create web sites with sortable widgets: HTML editor, image uploader, and YouTube player.
- **NeedFood** – Restaurant Reviewer (MEAN Stack, RESTful, Bootstrap, Yelp API, GMaps API, Facebook OAuth API, REST)
  Developed a web app to review restaurants, login, add comments, view on Google Maps based on user's location.
- **Project Feed 1010** – Data Visualizer for ISB's Aquaponics Systems (Python Flask, RESTful, MySQL, PL/SQL, Unittest)
  Developed a web-based visualizer to plot sensor data, transformed time-series to JSON and built RESTful endpoints.
- **Event Finder** (MEAN Stack, Bootstrap, jQuery, Eventbrite API, Jasmine, Karma, Mocha, GMaps API, REST)
  Developed a web app to find events, plotted on Google Maps, around user's location with user defined preferences.
- **Content Delivery Network** (Java, Python)
  Implemented replica HTTP servers with LRU cache. Selected optimal servers based on latency and geo-location.
- **Raw Sockets** (Python)
  Implemented a Raw socket, by building HTTP, TCP and IP layers using python.

EXPERIENCE

Cognizant Technology Solutions, Chennai, India
Associate (IT Services, Global Delivery Center)   Apr 2012 – Dec 2014
Retirement Advisor Forecast Viewer (TIAA-CREF's Retirement planner)
- Enhanced the GUI by developing feature enhancements using Spring MVC and jQuery in Agile environment
Common Order Management System
- Developed a middle-layer to route order events from an e-commerce app to a Mainframe using Spring Integration with JMS on glassfish application server.
- Implemented Publisher-Subscriber design pattern for messaging channel. Transformed orders from XML to POJOs

Programmer Analyst (IT Services, Global Delivery Center)   Dec 2009 – Apr 2012
Shelf Space Utilization and Product Catalog
- Improved shelf-space utilization by 10% by writing scheduled crawlers using Java Spring and Toplink ORM
- Developed a web app to manage product catalogs for an e-commerce website using Spring MVC framework, Toplink ORM and deployed on Glassfish application server.
- Generated pricing reports using COBOL and DB2 on a Z/OS mainframe for a leading Texas-based retail chain
- Achieved 95% code quality; resolved 50 critical bugs and above 100 minor bugs/fixes on integration test cases
- Won Retail CZAR Award in April 2011; Won Mastermind award on multiple occasions for technical prowess

TECHNICAL SKILLS

Programming	Java, Python, Linux Shell Scripting
Front-end	JavaScript, jQuery, Express, AngularJS, Node.js, Bootstrap, HTML5, CSS, JSON, AJAX
Frameworks	Spring core, Spring Integration, Oracle TopLink(ORM), Python Flask
Database	MongoDB, Oracle, DB2, MySQL
Tools	Eclipse, WebStorm, PyCharm, Jenkins, GIT, CVS, Apache Maven, Wireshark
Big Data	Apache Hadoop, MapReduce, AWS EMR, EC2, S3, Spark