Rakesh Buchan Krishna Murthy

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EDUCATION

Northeastern University, Boston, MA   May 2018
Master of Science in Computer Science   GPA:3.62/4.0
Relevant Courses: Managing Software Development, Algorithms, Database Systems, Information Retrieval, Web Dev, MapReduce

New Horizon College of Engineering, Bangalore, India   July 2009
Bachelor of Engineering in Electronics and Communication   GPA:3.80/4.0

TECHNICAL KNOWLEDGE

Programming Languages:	Java, Spring, Spring Boot, Hibernate, SQL, Scala, webMethods Flow Language, CCL
Programming Platforms:	Ubuntu/Linux, Windows, Hadoop, Spark
Tools:	Eclipse, WebStorm, IntelliJ, AWS, SoftwareAG Designer, ServiceNow, Docker, Postman
Databases:	Oracle, MongoDB
Web technologies:	JavaScript, JQuery, HTML, CSS, XML, RESTful Web Services, JSON, Bootstrap, AJAX, AngularJS, Express, Node.js, Passport.js
Source Control:	GitHub, Subversion

WORK EXPERIENCE

Cerner, Kansas City, USA. *Software Engineer*   July 2018 – Present
Account Management Dev (Java, CCL, Spring Boot, Hibernate, SQL, REST, Docker, Postman, Swagger, Cucumber, JUnit)
- Implemented multiple REST API end-points using Microservice architecture, Java, Dependency Injection, JPA, Hibernate, Docker
- Developed multiple new enhancements to Patient Accounting module of Cerner's Revenue Cycle Application using Java, CCL
- Contributed to Integration Testing framework by implementing several use case scenarios which would be added to Jenkins build for automatic validation at service level using Java, Cucumber

Grantham, Mayo, Van Otterloo & Co. LLC, Boston, USA. *Systems Engineer Co-op*   Jan 2017 – Aug 2017
Process Automation (ServiceNow, JavaScript, SQL)
- Implemented a data driven workflow to handle multiple approvals and execution of portal requests on ServiceNow platform
- On-boarded up to 15 catalog items, which facilitates all employees in the firm to raise several kinds of requests and incidents

Tata Consultancy Services Ltd., Bangalore, India. *Information Technology Analyst*   Mar 2010 – Dec 2015
IDOC Handler Framework (webMethods Flow language, Java, SQL, Oracle DB)
- Developed a framework to connect to SAP system through SAP adapter to receive IDOCs and perform structure validation
- Streamlined development activity which assisted in completing the development of 15 interfaces within a month
- Created user manual, checklists for usage of the framework and educated the team to abide by these rules

Bill File Processing (Java, webMethods Flow language, SQL, Oracle DB)
- Designed a system to handle large flat files containing more than 100,000 lines, by splitting the file into smaller chunks, parallelizing these smaller chunks of files improved the throughput by **40%**

Payments Integration (Java, webMethods Flow language, SQL, Oracle DB)
- Served for one year as onsite coordinator analyzing and designing the implementation of interfaces using webMethods for a banking client at Bournemouth, UK and also represented the middleware integration team, among several stakeholders
- Developed interfaces involving Flat files, XML, JDBC adapter, Websphere MQ adapter, SAP adapter, Adapter Notifications, FTP, File Polling using webMethods

ACADEMIC PROJECTS

PageRank (Java, MapReduce, AWS)   Oct 2017
- Wrote PageRank Algorithm (pre-processing - graph creation - top-100) for 50GB data with 99.0% accuracy

Pixel Prediction in high-resolution Brain scans (Scala, AWS)   Dec 2017
- Used random forest model, altered parameters & features to give high accuracy (97.47%) in predicting foreground-background pixels in a high-resolution brain scan

Web App Maker (MongoDB, Express, AngularJS, Node.js)   May 2016 - June 2016
- Developed a single page web application (SPA) using MVC design pattern which helps users to create websites by adding web pages and widgets. Implemented RESTful Web Services to perform Create Read Update and Delete operations

Information Retrieval (Java)   Jan 2016 - Apr 2016
- Built a focused web-crawler which indexed 1000 unique Wikipedia URLs using both breadth-first and depth-first techniques
- Implemented PageRank algorithm on WT2G collection containing 183,811 web documents until convergence
- Created inverted index for the search engine and implemented tf-idf, vsm and BM25 models to retrieve the best matched documents for any query on CACM data collection containing 3,204 documents