Rakesh Ganapathi Karanth

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO | MS in Computer Science — Expected: Dec 2016

GPA: 3.875

Relevant Coursework: Probabilistic Reasoning in AI, Distributed Systems, Data Analysis using Apache Spark, Algorithms, Operating Systems, Software Engineering

BMS COLLEGE OF ENGINEERING, BANGALORE | BS in Information Science — Received: Aug 2012

GPA: 9.51 / 10.0

Relevant Coursework: Computer Architecture, Data Structures, OOP using C++, Database Management, Java Programming, Algorithms, UNIX System Programming

TECHNICAL SKILLS

• Python • Java • C++ • Linux • Apache Spark • JavaScript • HTML • React • NodeJS

INDUSTRY EXPERIENCE

SALESFORCE.COM INC | Intern

Jun 2016 - Sep 2016 | San Mateo, USA

- Worked on probabilistically predicting the most common abbreviations people use and the most common spelling mistakes they make when entering CRM records. Identified 820 new abbreviations and 5000 common spelling mistakes.
- Helped build a model that predicts missing words in company names to improve match rates.
- Using Apache Spark built a tool that understands and generates new match test cases from input data belonging to different data vendors. Generated 4200 new high quality test cases with little human intervention.
- Built a NodeJS application that helps visualize changes in the data match rules.

  IMPACT: Improved match rates and confidence, Minimized human intervention.

AKAMAI TECHNOLOGIES INC | Software Engineer - 1

Jun 2012 - July 2015 | Bangalore, India

- Worked on Analytics products based on the MapReduce design paradigm. I built the libraries that could parse CSV and Excel input files, added key/value and range look-up functionality and the ability to mask certain dimensions to reduce column cardinality.
- Built a tool that provides IP level flexibility to distribute service configuration files across 3000 machines.
- Developed a service that lets end users configure the commands they need to run on specific machines at the required time interval. Built with the decorator design pattern in mind one could add additional steps to be run with each command as a wrapper.

  IMPACT: Improved stability, Customizable platform to test and roll out new features on production.

AKAMAI TECHNOLOGIES INC | Intern

Jan 2012 - May 2012 | Bangalore, India

- Developed tools that help monitor Analytical and Distributed networks. Focused on CPU load, file size and directory backlog.

  IMPACT: Better tools to provide the required insight, Visual Impact.

ACADEMIC PROJECTS

- **Defending SDNs from Malicious Administrators** - A protocol based on distributed consensus and metric validation to protect SDNs from malicious administrators. Worked on ZooKeeper integration and metric selection.
- **Admitted Insider** - A NodeJS application that helps prospective Graduate students track their GRE Application progress. I worked on designing the database schema and the writing of data to MongoDB.
- **Operating System Benchmark** - As a three member team we were tasked with creating, justifying, and applying a set of experiments to characterize and understand Operating System performance.
- **Distributed File System** - As a four member team we were asked to Implement a Distributed File System that supports simple file operations like read, write, create, delete and file size queries.

AWARDS

- One of the winners of the Akamai Bangalore Hackathon for designing and successfully completing the project – “Logs on the Browser”. I worked on the front end log display and the writing of logs from different machines on to HDFS.
- Won the Spot Award for rising up to the occasion to prevent a major incident by correcting the load-distribution logic that prevents traffic bursts.