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RAKESH GOPAL KAVODKAR

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EDUCATION

North Carolina State University Raleigh, NC
Master of Science in **Computer Science**
GPA: 3.56 **Expected Graduation:** May 2016
Course Work: Automated Learning and Data Analysis, Artificial Intelligence, Graph Data Mining, Advanced Algorithms, Design and Analysis Of Algorithms, Internet Protocols, Advanced Data Structues, Advanced Machine Learning, Foundations of Data Science

R. V. College of Engineering Bangalore, India
Bachelor of Engineering in **Computer Science**
GPA: 8.99/10 **Graduated:** May 2011

TECHNICAL SKILLS

- **Languages**: Java, C/C++
- **Scripts:** Python, JavaScript, R, NodeJS
- **Environments**: IntelliJ Suite, Eclipse, Visual Studio
- **Operating Systems:** Windows, Linux, Mac OS

WORK EXPERIENCE

SAMSUNG R&D INSTITUTE

Senior Software Engineer June 2013 - May 2014
Languages/technologies used: Java, Tomcat, NodeJS

Parent Control System

- Worked on the development of a child safety feature on mobile browsers; blocks potentially unsafe sites
- Implemented the category classifier using Naive-Bayes classification for text; developed in Java

News Recommendation System

- Implemented REST services to connect the recommendation module, database and the UI

Webpage Classification

- Implemented a corpus aggregator for the *webpage classifier*; corpus is used to train the classifier
- Designed and implemented a test framework to cross verify the data classified by the classifier module

CISCO SYSTEMS

Software Engineer August 2011 - June 2013
Languages/technologies used: Java, Tomcat, JavaScript

Prime Infrastructure (PI)

- Worked on *Config Templates*, a set of features that deploys configuration(s) over the network devices
- Developed *Undeploy Template*, a feature that removes a configuration from the devices(s)
- Designed and implemented *Global Objects*, an intermediate entity consumed by the *Config Templates*
- Worked with several customers on feature enhancements and product issues

ICIDIGITAL

Software Development Intern June 2015 - Present
Languages/technologies used: Java, JSP, AEM, LaTeX

Prime Infrastructure (PI)

- Worked on developing interactive training exercises on Adobe Experience Manager (for ICIDigital use)
- Wrote a multiversional LaTeX document for the training manual for version 5.6 and 6.1

ACADEMIC PROJECTS

- **Tweet Analyzer**: *NodeJS, HTML* [Spring 15]
  Built as a socked oriented client-server architecture using Express, Socket.IO; Tweets tracked and streamed based on keywords; Analyze the general sentiment behind the tweet;
- **Centralized Index File Sharing**: *Python* [Spring 15]
  A system for sharing RFCs among peers; RFC and peer info at the central node (server); File transfer as a peer2peer exchange;
- **Go-Back-N ARQ scheme**: *Python* [Spring 15]
  File data encapsulated over UDP packet; Go-Back-N scheme used for packet transfer; False packet loss introduced based on random probability;
- **Top-K twitter words**: *Java* [Spring 2015]
  Apache Storm (trident) used for real time stream analytics; Apache Lucene used for text preprocessing; Count-Min sketches to keep the word count;
- **Loan Default Prediction and Estimation**: *R* [Fall 14]
  A system which predicts whether granting a loan to a customer will result in defaulting, given the customer's transaction details;
- **Virus Propagation Simulation**: *Python* [Fall 14]
  Estimate the Effective Virus Strength based on infection and healing probabilities; identify nodes whose removal causes the max Eigen Drop for immunization;
- **NLP using Stanford NER**: *Java* [Fall 14]
  Perform NLP on Jane Austen's Emma; identify the features belonging to person, location, organization and other categories;
- **Tutorial on Trees**: *Java, Web 3.0* [UG: 2011]
  Implementation of a web-based tutorial on different types of binary trees;
- **Connect-N Game**: *Java* [UG 2010] Extension of the classic board game '4-in-a-row'; Flexibility to increase the board size and the number of coins in a row;