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| 2809-103, Avent Ferry Road | **RAKESH GOPAL KAVODKAR**  LinkedIn: https://www.linkedin.com/in/kavodkar | rg.kavodkar@gmail.com |
| Raleigh, NC – 27606 | 919-771-5917 |

**EDUCATION**

**North Carolina State University,** Raleigh, North Carolina

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| **Master of Science** in **Computer Science** | **GPA:** 3.56; **Expected Graduation:** Dec 2015 |

* **Course Work:** Automated Learning and Data Analysis, Artificial Intelligence, Graph Data Mining, Advanced Algorithms, [Design and Analysis Of Algorithms](https://cs9prd.acs.ncsu.edu/psc/CS9PRD/EMPLOYEE/PCS900PRD/s/WEBLIB_JQUERYUI.ISCRIPT1.FieldFormula.IScript_Enrollment_Wizard?PortalActualURL=https%3a%2f%2fcs9prd.acs.ncsu.edu%2fpsc%2fCS9PRD%2fEMPLOYEE%2fPCS900PRD%2fs%2fWEBLIB_JQUERYUI.ISCRIPT1.FieldFormula.IScript_Enrollment_Wizard&PortalRegistryName=EMPLOYEE&PortalServletURI=https%3a%2f%2fportalsp.acs.ncsu.edu%2fpsp%2fEP91PRD%2f&PortalURI=https%3a%2f%2fportalsp.acs.ncsu.edu%2fpsc%2fEP91PRD%2f&PortalHostNode=EMPL&NoCrumbs=yes&PortalKeyStruct=yes), Internet Protocols

**R. V. College of Engineering,** Bangalore, India

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| **Bachelor of Engineering** in **Computer Science** | **GPA:** 8.99/10; **Graduated:** May2011 |

**TECHNICAL SKILLS**

* **Languages:** Java, Python, Javascript, NodeJs, R, C
* **Environments:** Eclipse, IntelliJ, Visual Studio,
* **Operating Systems:** Linux, Windows

**EMPLOYMENT**

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| **Senior Software Engineer** | **SAMSUNG R&D INSTITUTE** | **June 2013-May 2014** |
| *Languages and Technologies used: Java, Tomcat, NodeJS, Python* | | |

**Parental Control System**

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

**News Recommendation System**

* Implemented REST services to connect the recommendation module, database and the UI
* Set up and managed a lab to deploy the distributed architecture of the recommendation system

**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

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| **Software Engineer** | **CISCO SYSTEMS** | **August 2011-June 2013** |
| *Languages and Technologies used: Java, Tomcat, JavaScript, HTML* | | |

**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

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| **Software Development Intern** | **iCiDigital** | **June 2015-Present** |
| *Languages and Technologies used: Java, Tomcat, JavaScript, HTML* | | |

**ACADEMIC PROJECTS**

* **Tweet Analyzer**: Built as a socked oriented client-server architecture in NodeJS (using Express, Socket.IO); Tweets tracked and streamed based on keywords; Analyze the general sentiment behind the tweet [**Spring 2015**]
* **Centralized Index File Sharing:** A system for sharing RFCs among peers; RFC and peer info at the central node (server); File transfer as a peer2peer exchange; developed using Python sockets; [**Spring 2015**]
* **FTP using Go-Back-N ARQ scheme:** File data encapsulated over UDP packet; Go-Back-N scheme used for packet transfer; False packet loss introduced based on random probability; developed using Python sockets; [**Spring 2015**]
* **Top-K twitter words:** Apache Storm (trident) used for real time stream analytics; Apache Lucene used for text preprocessing; Count-Min sketches used as data-structure for keeping the word count; developed in Java; [**Spring 2015**]
* **Loan Default Prediction and Loss Estimation**: A system which predicts whether granting a loan to a customer will result in defaulting, given the customer’s transaction details; project idea from Kaggle, developed in R [**Fall 2014**]
* **Speaker-Listener Label Propagation (SLPA) Algorithm**: Implementation of the algorithm from the paper *Towards Linear Time Overlapping Community Detection in Social Networks* by Jierui Xie and Boleslaw Szymanski, that detects overlapping communities in a graph; developed in Java; [**Fall 2014**]
* **Event Detection in Time Series of Mobile Communication Graphs (paper implementation)**: Detects the change points or anomalies in a time varying graph; anomalies refers to surges in traffic; developed in R using *sna* and *igraph* [**Fall 2014**]
* **Virus Propagation Simulation**: Estimate the *Effective Virus Strength* based on infection and healing probabilities; identify the nodes whose removal causes the max *Eigen Drop* for immunization; developed in Python [**Fall 2014**]
* **Natural Language Processing using Stanford NER**: Perform NLP on Jane Austen’s *Emma*; identify the *features* belonging to *person, location, organization* and *other* categories; developed in Java [**Fall 2014**]
* **Tutorial on Trees (data-structure)**: Implementation of a web-based tutorial on different types of binary trees. Developed using Java, Adobe Flash, HTML 4.0, CSS and JavaScript. [**Undergraduate: Jan – Jun 2011**]
* **Connect-N Game**: Extension of the classic board game ‘4-in-a-row’. Flexibility to increase the board size and the number of coins in a row. Developed using Java [**Undergraduate: Aug - Dec 2010**]