305 winspear ave
Buffalo NY 14215.
Personal website

NANDAKISHORE KRISHNA

(716) 431-9950
nandakis@buffalo.edu
Stackoverflow profile
Linkedin profile
GitHub profile

EDUCATION

Buffalo, NY	**State University of New York at Buffalo**	**Fall 2015 – June 2017**

- M.S. in Computer science (1st year). CGPA: 3.5/4
- Graduate Coursework: 1st sem - Algorithms; Information Retrieval; Computer Security; Machine Learning, 2nd sem - Distributed systems, Modern networking concepts, Data intensive computing – big data frameworks Hadoop, spark.

Bangalore, India	**PES Institute of Technology**	**Aug 2008 – July 2012**

- B.E. in Computer science. CGPA: 8.21/10
- Undergraduate Coursework: Algorithms and data structures; Operating Systems; Principles of programming languages; Object Oriented Modeling and Design; Finite automata and formal languages.

EMPLOYMENT

Member of Technical Staff	**Oracle India Pvt. Ltd (IDC)**	**Dec 2014 to July 2015**

- Involved in the development of the UI modules for administration and self-service for Oracle Mobile Security Suite which is part of Oracle Identity Management. The challenge was to use ADF and build UI modules in an MVC format, to ensure loose coupling with REST backend and modularity.
- Involved in the migration of the source code from Oracle proprietary version control systems to a distributed Git based system called Oracle ALM.

Samsung R&D Institute India – Bangalore

Software Engineer	**(SRI-B)**	**May 2013 to November 2014**

- Involved in the development of SOC camera sensor driver and camera HAL in android linux for Galaxy range of phones.
- **Samsung spot award:** for my contribution towards implementing "I2C burst write" feature in SOC sensor driver for better camera performance.

R&D Engineer	**Airvana Networks India Pvt Ltd**	**Aug 2012 to Apr 2013**

- Involved in the development of Femtocell Service Manager, a TR-069 protocol based ACS.
- Improved Femtocell simulator performance by memory optimizations, migrating to JAXB from Castor, optimum thread pool size. Etc.

NOTABLE ACADEMIC PROJECTS

- **Chord DHT –** Implementation of Chord - Distributed Hash Table algorithm. TCP sockets, Java, Linux, Android.
- **Message board –** A distributed P2P Android app which displays messages from all the peers in FIFO and total order in all the instances using ISIS algorithm with node failure handling. TCP sockets, Java, Android.
- **Transport Layer protocol –** Implemented three transport layer protocols Alternating Bit Protocol, Go Back N and Selective Repeat in a simulated environment and evaluated them. C, Linux.
- **Chat server** – chat application using TCP sockets with various control commands for communication between client and the server. C, sockets, linux.
- **Class room scheduling –** Using map-reduce (hadoop) to analyze classroom usage of UB from 1910 till date.
- **Social curry** – building, evaluation and tuning of multilingual search system using models in information retrieval, such as Vector space models, Boolean retrieval, Probabilistic models, Language models, etc., using Tweets as the data. Java, Solr, Twitter REST API.
- **Product search by query expansion**. A single web-app to search for any product across multiple e-commerce sites such as flipkart, infibeam, etc. Java, Solr, Nutch, XML, XSLT, HTML, Javascript.
- **Intelligent data retrieval for alumni network**. A web-app to search and suggest suitable candidates among current students for jobs posted by the alumni. Java, Servlets, Ajax, XML, python, Linkedin REST API.

Languages and Technologies

- Java, C, XML, SOAP, REST, SQL, HTML, javascript, python, solr.
- Eclipse, J2EE, Spring MVC, Ant, Jacoco, Junit, JAXB, Linux, Git, Hudson, Jira, Android, Windows.