Ananda Kishore Sirivella

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EDUCATION

University of Florida, Gainesville, FL   **Aug 2015 – April 2017**
Master of Science, Computer Science
- Courses: Analysis of Algorithms, Advanced Data Structures, Bioinformatics, Distributed Operating Systems, Machine Learning, Pattern Recognition, Computer Vision, Statistical Methods in Research 1, Computer networks.

Birla Institute Technology and Science – Pilani, India   **July, 2008 – May 2012**
Bachelor of Engineering, Electronics and Communications Engineering

TECHNICAL SKILLS

- *Operating Systems: Cent OS, Linux, Windows.*
- *Programming Skills: **Java(Proficient)**, Python, Scala, Perl, Matlab, C, bash, SQL(basic).*
- *Web Technologies: PHP, XML, XSL, AJAX, JSON, JavaScript, jQuery, CSS, NodeJs, AngularJs.*
- *Miscellaneous: GIT, CVS, SVN, Software development cycle (waterfall & agile model).*

PROFESSIONAL EXPERIENCE

Senior Software Engineer, *Florist Transworld Delivery (FTD) India pvt ltd.*   **July 12 – July 15**
Software developer for the Interflora (UK based B2C floral network), involved using **LAMP stack (Linux, Apache, MySql & Perl) & Front-end Technologies (HTML, Javascript, CSS, AJAX & jQuery).** My responsibilities involved:
- Improve the user experience of current software.
- Maintain existing codebases - (e.g. bug fixes, updating platforms, updating libraries)
- Develop new components - (e.g. applications, services, features, user interfaces, tools)
- Implement inter-service communication, typically via REST APIs and Integrate 3rd-party services.
- Test one's and team's code - (e.g. unit testing, integration testing) and participate in team code review.

Intern, *Tech Mahindra pvt ltd.*   **July 11 – Dec 11**
- **Portal for Dissertation Management (J2EE & MySQL):**
  Developed an Intranet portal hosted on Apache Tomcat with backend on JSP & servlet (page transitions) and a pinch of front-end for the aesthetics. The portal worked as a course management for BITS-pilani distance learning.

PROJECTS

- **Huff encoding with different Priority Queues - binary heap, 4-way heap & pairing Heap (Java):**   April 2017
- **Internet Chat Application (Java, TCP/IP & FTP):**   December 2016
  Implemented simple chat application that handles group chat & file share functionalities, using socket programming.
- **Handwritten Digit Recognition (Python, Keras & Deep Learning):**   November 2016
  Implemented CaffeNet pre-trained model to classify the images given into the specified labels from MNIST database.
- **Email Spam filtering (Python, Sci-kit & Supervised learning):**   March 2016
  Implemented e-mail spam filtering with Naive Bayes Classifier, K Nearest Neighbors & Support Vector Machines over UCI Spambase dataset (data about 50 frequent words in emails) and evaluated the results over the accuracy.
- **Multiclass kernel SVM implementation (Matlab & Unsupervised learning: clustering)**   April 2016
- **Red-Black Tree Implementation (Java)**   March 2016
- **Simultaneous Alignment and Folding of RNA (Bioinformatics & C++):**   December 2015
  Implemented improved version of sankoff's algorithm (O(N6) time) .i.e. FoldColAlign (O(N4 logN) time).
- **Facebook simulator, its REST API & security system (scala, Akka actors & spray-can):**   November 2015
  Implemented basic functionalities of user using Spray-Can framework and Akka Actors with secure client server communication based on RSA-2048 PK cryptology and AES-256.
- **Gossip & Push-Sum Algorithm (scala & Akka actors):**   October 2015
  Implemented Gossip and Push-Sum algorithm for aggregate computation, convergence determination and optimized distributed communication on Line, Full Network, 3D Grid & Imperfect 3D Grid peer to peer network.
- **P2P Distributed HashTable (scala & Akka actors):**   September 2015
  Based on Chord Protocol, implemented a Distributed Hash table and simulated a scalable peer to peer lookup service for message passing and failure model.