

DEEPAK NERALLA

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EDUCATION

Univesity of Illinois at Urbana Champaign

Master's in Computer Science, August 2012-December 2013(Expected)

GPA: 3.55/4.0

Indian Institute of Information Technology,Allahabad India

Bachelor's in Computer Science, August 2006-May 2010

CGPA: 8.23/10

WORK EXPERIENCE

University Archives, UIUC (September 2012-December 2012)

Web Programmer

Developed the DataModel and Backend for the product Archivesspace,the archival management utility. Developed the basic framework for the product myKive , a personal feed archiving and management utility (has features like retrieval of personal feed from all the social networking websites based on sentiment etc.)

Oracle (July 2010-July 2012)

Software Development Engineer

Worked on mainstream development of Profitablity and Financial Close management.Developed backend DataModel and created Essbase data controls for Profitability and Cost Management.Developed SOA flows for Financial Close Mangement for Processing System Automated Tasks.

RESEARCH EXPERIENCE

National Center for Super computing Applications (December 2010-present)

Research Assistant

Conducting research in extracting hotspots around lakes from sattelite Images and hand drawn maps of british and french colonial region.(Microsoft Research WorkShop). And also assisting with the development of a video conferencing system using Kinect which allows users to share Objects and modify their attributes like shape and placement in the virtual space.

TECHNICAL SKILLS

- Languages: C, Java, Ruby on rails ,PHP ,JavaScript, Matlab, HTML, CSS,Objective C
- Technologies: Django, Drupal CMS, MySQL, L^AT_EX, Bash Scripting

PROJECTS

1) MapleJuice

A Hadoop-like distributed systems framework which consists of a distributed file system implementation (with replication) and also a MapReduce like programming framework which instead of processing line by line processes by file and is well suited for development of machine learning algorithms

2) Distributed Semantic Role Labelling

Implemented MapReduce variants of Online algorithms Perceptron, Winnow and Support Vector Machines. Applied the above algorithms on argument learning phase of semantic role labeling and achieved greater performance gain over the baseline serial executions.

3) Parking Spot Detection

Implemented an automatic parking spot detection from Google satellite images using Support Vector Machines. Used the dataset collected by the Image and Spatial Data Analysis group, NCSA, UIUC.

4) Conversation Clocks

Implemented an iPhone application that shows the participation of an individual in an audio-conference in the form of real-time visualization.

5) p2psip

Implemented a peer to peer implementation of Session Initiation Protocol using Kademlia Distributed Hash Table.

6) Optical Character Recognition

Implemented a Optical character recognition system using Artificial neural networks.

OTHER PROJECTS

- FbBump-Android application which is used to send friend requests when you bump two mobiles(at uiuc midwest facebook hackathon).
- TronBot-Developed a tron bot constructing Min-Max tree during ReadyForce HackerTour Challenge.
- Ipv4 to Ipv6 tranlation using tunneling.
- Support vector machine based email spam filter.
- Shoot the Star castle - openGL game.
- A parallel priority queue extension for Intel TBB.

CERTIFICATIONS

- Juniper networks certified Routing associate(JNCIA-ER)
- Juniper networks certified Switching associate(JNCIA-EX)

AWARDS AND ACTIVITIES

- Winner of VmWare Fabric Hackathon 2012 in UIUC
- Presented FBBump hack at UIUC facebook Hackathon 2012
- Ended up in Top 10 in ReadyForce Tron hackathon
- Coder of the month in Oracle for the month of April 2011.
- Won 3rd Prize in Ethical Hacking contest organized by IIIT Hyderabad during their Tech Fest '09.