Nitin Chandra Badam

Roll No. – 11010109

B.Tech – Computer Science & Engineering

Department of CSE

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DEGREE	INSTITUTE	CGPA/%	YEARS
B.Tech (in CSE)	Indian Institute of Technology Guwahati	8.83/10	*2011-2015*
Higher Secondary School Certificate	Narayana Junior College, Hyderabad	97%	*2009-2011*
Secondary School Certificate - ICSE	St. Joseph's Public School, Hyderabad	92%	*2009*

EXPERIENCES

Summer Internship, Indian Institute of Science, Bangalore
May -July 2014

Yogesh Simmhan, Assistant Professor, SERC Department, IISc Bangalore

- Designed a scalable *Subgraph Rank* algorithm, an improvement of the **PageRank** algorithm to better leverage the Subgraph Centric Programming Abstraction of the **GoFFish** graph processing platform.
- Done the Quality/Performance Benchmarking for varying graphs against the standard PageRank algorithm. Observed 25-75% improvement performance-wise. (deployed across Amazon AWS : EC2 Linux instances)

Summer Internship, Sarada Labs, Bangalore
May - July 2013

Jagannathan Srinivasan, Consulting Member of Technical Staff, Oracle USA

- Developed a **PRLM (Patient Record Lifecycle Management)** tool to provide control over retention, archiving and purging of electronic patient visit records.
- Worked with evolving databases where the table structure is time and locality variant.
- Designed the tool to be domain-agnostic, adaptive and scalable. The tool filters the records based on the value (worth of a record) which represents its lifetime.

PROJECTS

Partition Rebalancing for Improved Large-Scale Graph Processing (BTP)
July, 2014 – Ongoing

Guide: Dr. Diganta Goswami, Professor, Department of CSE, IIT Guwahati

The project deals with the problem of optimized subgraph-rearranging of an already partitioned graph data across a cluster based on the algorithm that is to be executed, hence minimizing the net-running time for the new arrangement.

Lexical Analyzer and Parser
Feb-Apr, 2014

Guide: Dr. Arnab Sarkar, Assistant Professor, Department of CSE, IIT Guwahati

Implemented a lexical analyzer to generate the tokens on input. An LL(1) parser was implemented for a language C*, a subset of C language, which calls the lexical analyzer on a source code input to generate tokens and parse it.

Rumour Detection in Social Networks using Opinion Mining
Feb, 2014 – Ongoing

Guide: Dr. Sanasam Ranbir Singh, Assistant Professor, Department of CSE, IIT Guwahati

Detecting if a rapidly spreading news is a rumour in Large Social Networks using the concepts of Opinion mining. Choosing a trusted set of users and later using clustering techniques to detect a rumour if there is any.

Restaurant Management System
Mar-Apr, 2013

Guide: Dr. P.K.Das, Associate Professor, Department of CSE, IIT Guwahati

Led a group of 6 for developing a LAN-based software for managing a restaurant and later extended the group to 20 members to make an advanced version of the same. The features were extensive, which include managing of warehouses, supplies, employees, and financial aspects; placing orders; generating bills; etc.

Text file Compressor   *Oct-Nov, 2012*

Guide: Dr. Saswata Shannigrahi, Assistant Professor, Department of CSE, IIT Guwahati

Implemented a text file compressor in C++ using the *Huffman algorithm*. Achieved around **51%** compression ratio of the text files.

PUBLICATIONS

- **Nitin Chandra Badam**, Yogesh Simmhan, "*Subgraph Rank: PageRank for Subgraph-Centric Distributed Graph Processing*", Proceedings of 20th International Conference on Management of Data 2014 (9% full paper acceptance)

- **Nitin Chandra Badam**, Aradhna Kumari, Jagannathan Srinivasan, "*Information Lifecycle Management in Evolving Healthcare Databases*", Proceedings of 19th International Conference on Management of Data 2013 (the only Industry Stream full paper that was accepted, 12.5% full paper acceptance)

ACHIEVEMENTS

- **Student Delegate from India for JENESYS 2.0, Japan:** One of the student representatives selected from India for the 15th Science and Technology Batch of JENESYS 2.0 to Japan – June, 2014.

- Secured **All India Rank 46** in **AIEEE 2011** among **1.1 million** participants for the exam.

- Among the top **0.2%** (ranked 1118 out of **0.5 million** candidates) across India in IITJEE-2011.

- Secured **world-wide** rank '**160'** in the **International Mathematics Olympiad** in the year 2010.

RELEVANT COURSES

- **Systems:** Operating Systems, Compilers, Networks, Databases
- **Theoretical:** Data Structures, Algorithms, Automata Theory, Discrete Mathematics, Linear Algebra, Optimization
- **Electives:** Data Mining, Distributed Systems, Computational Geometry
- **Labs:** Functional Programming, Databases, Compilers, Networks, Peripherals, Software Engineering, Hardware

TECHNICAL PROFICIENCY

- **Operating Systems**: Windows, Linux

- **Programming languages**: C, C++, **Basics:** Java, Python, Haskell

- **Web Design & Scripting**: **Basics:** HTML, JavaScript, PHP

- **DBMS**: MySQL, PostgreSQL, PL/SQL

- **Others**: LATEX, MS Visual Studio, MS Office, Eclipse

POSITIONS OF RESPONSIBITY

CSEA Events Head/ Batch Representative, B.Tech 4th Year, CSE   *2014-2015*
- Organizing and coordinating all the CSE departmental events in the university.
- Regulating all the batch related activities and ensuring smooth execution of the same.

Core Team, IITG Entrepreneurial Summit – 2013   *Jan-March 2013*
- Developed an Online portal for the fest, facilitating registration and online events.
- Organizing and coordinating various events during the fest.

EXTRA CURRICULARS

- City representative of Technothlon 2012 (at Hyderabad), the annual school championship organized by the students of IIT Guwahati.

- Active member of National Sports Organization (NSO), IIT Guwahati in **Volleyball** from Aug 2011 - Apr 2013.

- Secured 1st prize in the State-level United Nations quiz competition in 2008.

- Participated in the 14th Annual Eco-friendly Trekking Camp 2011 hosted by Global Adventure Association.

References available on request