

Pranav Thulasiram Bhat

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EDUCATION	B.Tech. Computer Engineering <i>National Institute of Technology Karnataka, Surathkal.</i> Current Cumulative GPA - 9.55 (on a scale of 10). Ranked Third in a class of 106.	July 2012 – May 2016
EXPERIENCE	SDE Intern, Amazon Development Center(India) Worked in Supply Chain Optimization Technologies. Was responsible for the development and deployment of a web service to monitor a Tier 1 service in Amazon's retail pipeline.	May - July 2015
	Founding member, Concat Helped create Concat , a website that helps Indian researchers find conferences and journals in their areas of research.	February 2015 – Present
PUBLICATIONS	Social Network Analysis and Mining Pranav Thulasiram Bhat, Rohit Varkey Thankachan, and K. Chandrasekaran. "Sharding distributed social databases using social network analysis." <i>Social Network Analysis and Mining</i> , Springer Vienna 5.1 (2015): 5-31	July 2015
	Intelligent Systems, Modelling and Simulation(ISMS) Kashyap, Rakesh, Malladihalli S. Bhuvan, Srinath Chamarti, Pranav Bhat, Mintu Jothish, and Karker Annappa. "Algorithmic Approach for Strategic Cell Tower Placement." In <i>Intelligent Systems, Modelling and Simulation (ISMS)</i> , 2014 5th International Conference on, pp. 619-624. IEEE, 2014.	February 2014
RESEARCH AND PROJECTS	Undergraduate Major Project <i>Julia Network Analysis Platform:</i> Development of a distributed network analysis platform that allows users to analyze, mine and restructure complex graphs. Also developed the Flow algorithms module for LightGraphs.jl . Guide: Prof. Mohit P Tahiliani	July 2015 – Present
	Minor Thesis <i>Sharding Social Networking databases</i> Worked on efficient sharding algorithms for the distributed databases used in Social Networks. Compared the performance of community-based sharding strategies to Random Sharding, the de facto industry standard, in both static and dynamic topologies. Guide: Prof. K. Chandrasekaran	
	Computer Graphics Course Project <i>3D Functional Graphics</i> Contributed to Compose3D , a Julia package that uses functional programming constructs to simplify the generation of 3D meshes. Guide: Dr. Shashidhar G Koolagudi	

Computer Networks Course Project

Network Simulator 2

Integrated the UDPLite protocol into NS2, and studied the performance of UDPLite in audio streaming applications over error prone networks. Also developed a patch to fix a long standing bug in the ARED AQM for wireless nodes.

Guide: Dr. Mohit P Tahiliani

Information Security Course Project

Security risks of semantic search engines in Social Networks

Studied how Semantic Search Engines in social networks, such as Facebook's Graph Search, can be used in Spear Phishing. Proposed solutions to counter the vulnerabilities discovered.

Guide: Prof. K Chandrasekaran

AWARDS

Arun M. Hegde award

April 2015

Highest Undergraduate Semester Grade Point Average.

All-India Engineering Entrance Examination

99.84 percentile

May 2012

Ranked 2126 among 1.3 million candidates who appeared for the exam.

RELEVANT COURSEWORK

Systems and Networking: Operating Systems, Data Communication, Computer Networks, Database Management Systems, Unix Network Programming, Advanced Computer Networks, Distributed Computing Systems.

Mathematics: Engineering Mathematics I&II, Concrete Mathematics, Discrete Mathematical Structures, Probability Theory and Applications.

Theory: Data Structures and Algorithms, Theory of Computing, Design and Analysis of Algorithms, Advanced Data Structures, Compiler Design.

COMPUTER SKILLS

Programming Languages Java, Python, Julia, Matlab and R.

Web Programming HTML, Javascript and Django.

Operating Systems Linux, Mac OS and Windows.

Cloud Computing Services AWS, AppEngine and Heroku.

EXTRA- CURRICULAR ACTIVITIES

Core Member of the Mathematics Club

National Institute of Technology, Karnataka

Took up the initiative to promote awareness of mathematics in the student body.

Microsoft Student Partner

Worked alongside Microsoft professionals to conduct Microsoft campus events, hackathons and tech-talks.

Volunteer at Juliacon India, 2015

Volunteered to help organize a conference promoting the Julia programming language.