

Utkarsh Shrivastava

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OBJECTIVE

To obtain a summer internship in the area of software development and network security.

EDUCATION

Georgia Institute of Technology, Atlanta GA Dec '10(expected)
Master of Science, Information Security

Jaypee University of Information Technology, Solan May '09
Bachelor of Technology, Computer Science and Engineering

EXPERIENCE

Georgia Institute of Technology, *College of Computing* Spring 2010
Graduate Student Assistant under Professor Nick Feamster
- Developing a tool to predict how closely spam IPs are related.
- Integrating it with spam filters to curb spam.

Georgia Institute of Technology, *Office of Information Technology* Fall 2009
Graduate Student Assistant with ITS-Application Support team.
-Designed the database for vendor profile system which is used to provide prospective suppliers with the information they need to conduct business successfully at Georgia Tech.

-Assisted in debugging and testing of a web application made for center for the application of teaching and learning.

PUBLICATIONS

- Nitin, **Utkarsh Shrivastava**, Rajan Vaish k -ary n -tree: Traffic Based Analysis using Adaptive Routing Algorithms, International **Journal** of Computers, ISSN: 1998-4308 Spring 2009
- Nitin, Rajan Vaish, Srishti Sarin, **Utkarsh Shrivastava** "Adaptive Load Balanced Routing Algorithm for X-Torus Topology" at WorldComp'09. Spring 2009
- Nitin, Rajan Vaish, **Utkarsh Shrivastava**, Performance Analysis of X-Torus Topology by Maximal Utilization of Cross-links using Adaptive Load Balanced Routing Algorithm during Congestion, MASAUM **Journal** of Computing (Volume.1, Issue. 1) Spring 2009
- Satish Chandra, **Utkarsh Srivastava**, Sidharth Dixit, Rajan Vaish , Manisha Rana, "Improved AntNet: ACO routing algorithm in practice", 11th International conference on computer Modeling and Simulation (UKSim), Emmanuel College, presented at **University of Cambridge**, England, 25–27 March 2009.Proceedings published in IEEE Digital Library. Fall 2008
- Nitin, **Utkarsh Srivastava**, Sidharth Dixit, Rajan Vaish , Manisha Rana, "Adaptive Deterministic Routing Algorithm for k-ary n-cube Torus Network", 7th Annual workshop on charm++ and its applications, University of Illinois at Urbana Champaign, USA. Fall 2008

PROJECTS

- **RSS security: Prevention of code injection attacks in web applications** Fall 2009
[Document Object Model(DOM), PHP, Mysql, Yahoo User Interface(YUI)]
- Modified the YUI to prevent code injection attacks by redefining the DOM object.
- Tested it against existing as well as custom defined attack suite.
- **GTDeals: An online community with sections devoted to sales, services, housing etc for GT members. [Android, PHP, Mysql, Apache server]** Fall 2009
- Developed a website for the users to interact with others and sell/buy stuff.
- Designed a module for website interaction with android.
- **Mobcast: Broadcast of radio, news, music on a cellular device[using asterisk PBX, mysql, PHP, gacast , RSS]** Fall 2009
-Created a PHP script to fetch the RSS events such as news, weather, astrology and sports. These events are available upon dialing a number, through asterisk server.
-Configured Asterisk dial plan for incorporating the above features.
- **Load balanced routing in interconnection networks.[bigsim simulator, java]** Spring 2009
- Designed and developed a new algorithm which we called ADRA – Adaptive Deterministic Routing Algorithm.
- Developed a java module for implementation of topologies and various traffic patterns.

SKILLS

- **Programming Languages:** C, C++, Java
- **Database:** Oracle 10g, MYSQL, SQL server,DB2 V9
- **Scripting Languages:** Perl, Shell
- Web Development:** PHP, ASP.net, Javascript, CSS, XHTML
- **Softwares:** Adobe Fireworks, Photoshop, Dreamweaver, Microsoft VISIO , Secure CRT, WinSCP, Putty
- Simulators:** Emulab, Openflow, Bigsim

AWARDS AND ACHIEVEMENTS

- **Winner of the hacking event, hacku at Georgia Tech, organized by Yahoo!**
- **Reviewer** for the **Journal Of Supercomputing, Springer, USA**
- **Reviewer** for the International Workshop on Advances in Computer Networks, VLSI and Innovative Technologies, ANVIT
- **Webmaster** for <http://ewh.ieee.org/sb/delhi/juit> the official website of JUIT student branch of IEEE.[session 07-08]
- **Presentation at University of Cambridge, Emmanuel College, UKsim '09.**
- **Award** for outstanding technical contribution for the JUIT student branch of IEEE.
- Sun Certified Java Professional (**SCJP,96%**)
- IBM DB2 V9 (**DBA,92%**)
- **Participated** and displayed project under student project exhibition category in International Conference on Contemporary Computing[IC3].

Please ask for references