

Ankur Khetrpal

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OBJECTIVE

To obtain an internship with a focus on application and/or systems development and evaluation and to pursue problem solving in a collaborative environment.

EDUCATION

Purdue University, West Lafayette

MS in Computer Science, expected May 2010

GPA: 3.72/4.0

Expected Thesis title: Probabilistic Fault-tolerant Ordered Multicasts in static and dynamic hierarchical environments.

Delhi College of Engineering (DCE), University of Delhi, India

B.E. in Computer Engineering (with Honors), June 2008

Equivalent GPA: 3.97 (WES), Departmental Rank 2

WORK EXPERIENCE

Graduate Research Assistant, Dept. of Computer Science, Purdue University **Aug 2008 - Present**

- Developing methodologies for large-scale causal and total order probabilistic multicast.
- Designing and implementing low-overhead strategies for context-aware and mobile publish/subscribe systems.

Research Intern, Indian Institute of Science (IISc) (2007) {*Summer Internship*} **3 months**

- Developed a hybrid testbed, an integration of physical components into the network simulated in Qualnet, for critical QoS evaluation in a network.

Project Intern, Indian Institute of Technology (IIT), Delhi (2006) {*Winter Internship*} **2 months**

- Developed a Software UART for ARM architecture for real time applications at Embedded Systems Lab, IIT Delhi.

KEY PROJECTS

UAVINDIA, Center for Advanced Robotics and Intelligent Vehicles, DCE (2006 - 2008) **24 months**

- Built a quad rotor Unmanned Aerial Vehicle. Designed the long-range wireless network and implemented the application for video and sensor data transmission across the UAV and the base station.

Quicksilver Scalable Multicast, Cornell University (2007 - 2008) **15 months**

- Developed content distribution applications over QSM as a publish/subscribe system for evaluation and testing.

Performance evaluation for BigTable Implementations, Purdue University **Fall 2008**

- Large-scale performance and service evaluation HBase (Java) and Hypertable (C++) over Amazon EC2.

Characterizing Network host behavior at wire speeds, Purdue University **Spring 2009**

- High performance data structure design for node classification algorithms implemented using Bloom Filters.

TECHNICAL SKILLS

Programming Languages: C, C++, C# (.Net 2.0), Java (Intermediate), Python (Intermediate)

Network Simulators: NS2, Qualnet

Web Technologies: ASP, ASP.NET 2.0, HTML, CSS, Javascript

PUBLICATIONS

- Poster: A bio-inspired approach to distributed certificate revocation in VANETs. Presented at **IEEE Infocom 2007**.
- Efficient Decentralized orchestration of Hierarchical Topics. Submitted to **Middleware 2009**.

POSITIONS HELD

- Graduate Committee Representative, Graduate Student Board, Dept. Of Computer Science, Purdue University.
- Team Leader, Unmanned Aerial Vehicle Project (UAVINDIA), DCE (2007 - 2008)
- Director, Technical Affairs, Asia-Pacific Student Entrepreneurship Society (ASES), Delhi (2007 - 2008)

AWARDS

- Most Innovative Design Award at the International Aerial Robotics Competition, held in Georgia. (2006)
- 3rd position at Creativity ++, the software design competition held at IIT Delhi. (2006)