Anup Goyal

OBJECTIVE: Seeking a challenging research oriented full time position as a Technical Developer.

EDUCATION

Northwestern University, Evanston, IL

M.S., Computer Science, expected june 2008

GPA: 3.97/4.00

Thesis: Measurement and Diagnosis of Misconfigured Peer-to-Peer Traffic

Relevant Coursework: Machine Learning, Algorithms and Data Structures, Graph Theory, Network and Internet Security, Operating Systems, Computer Architecture, Compiler Optimization.

Indian Institute of Technology (IIT), Kharagpur, India

B.Tech., Computer Science and Engineering, June 2004

GPA: 8.44/10.00

HONOURS & SCHOLARSHIPS

- Won the *3rd place* in the online Programming Contest in *BITWISE-2002*, held by **IIT Kharagpur**. It is a global programming contest in which over 900 teams participated.
- Achieved *IIT- Joint Entrance Examination* (Top 0.1% of approx. 200,000 Candidates) [**AIR** – 155].
- Research Assistantship position at Northwestern University with full scholarship, 2006-present.
- Awarded the Principal's Gold Medal (top 1% of school) for outstanding academic performance
- **IEEE member** since the past 4 years, **IEEE Computer Society** member, **ACM** student member.

WORK EXPERIENCE

Trilogy Software Pvt. India Ltd., Bangalore, India   **June 2004 – August 2006 (2+ years)**

Senior Technical Developer   **(c++, windows Programming, java)**

- Developed an auto Retail Suite of Solutions for **Ford Motor Company** working with a team of 10.

- Developed an open source antivirus for Windows platform.
- Developed an On-Access Scan engine for windows 2000 and XP working with the team of 3.
- Worked in the capacity of an individual contributor, and also acted as a lead in defining the architecture, determining work split and defining interface requirements.

Infosys Technologies Ltd., Bangalore, India   **May 2003 – July 2003**

Intern at **SetLabs** *(Research wing of Infosys)*   **(C, Unix, Visual Studio)**

- Developed a WebDAV (Web Development, Authoring and Versioning protocol) as an add-on component to Influx workbench.

TECHNICAL SKILL

Languages	: C, C++, Java, python, perl, Matlab
Databases	: MySQL, Oracle along with SQL, PL/SQL, JDBC
Web Technologies	: HTML, XML, PHP, CSS, Flash, Javascript, AJAX
Operating Systems	: Windows 9X/2000/ME/XP, GNU/Linux, UNIX
Development IDE	: Eclipse, Visual Studio
Testing tools	: JUnit, EMMA
Misc	: Networking Protocols, OpenGL, Rational Rose

PUBLICATIONS & ACEDEMIC PROJECTS

- A. Goyal, Z. Li, Y. Chen, A. Kuzmanovic "(Title cannot be revealed due to blind review process)". In submission to UNISEX Symposium of Networked Systems Design and Implementation (NSDI '08)

- Z. Li, A. Goyal, Y. Chen, V. Paxson "(Title cannot be revealed due to blind review process)". In submission to ACM SIGMETRICS, Maryland, USA, June 2008

MIPS Lite Processor Design (Mentor Graphics Design Tool)

- Designed and implemented a MIPS-lite 32-bit processor with a 32-bit ALU.
- Support for Load/stores, ALU arithmetic operations, Branch and Jump instructions.

Developed an operating system called KOS (Kid Operating System)

- KOS was written over a mips simulator. The KOS can do simple operating system functions.

Developed a complete compiler for C-language (a subset of C language)

Developed a Graphics Editor in JAVA.

- The complete design of the system is done using rational rose tool which uses UML(Unified Modeling Language).

Recommender Systems (Java)

- Implemented a graph-theoretical approach to recommend items to a user on the web by predicting his preferences based on his similarity with other users (sites like Amazon.com employ a similar strategy).

PROFESSIONAL ACTIVITIES

Reviewer, IEEE INFOCOM 2008

Reviewer, ACM MobiCom 2007

Reviewer, ACM SIGCOMM 2007 Posters