

ASHIK RATNANI

607-319-9111

319 Highland Rd, Apt 4C, Ithaca, NY, USA-14850

anr58@cornell.edu

EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Masters of Engineering in Computer Science

May '12
GPA: **3.83/4.00**

Nirma University, Institute of Technology, Ahmedabad, India
Bachelor of Technology in Computer Science

May '10
GPA: **8.76/10.00**

COURSEWORK AND ACADEMIC PROJECTS

Advanced Systems

Fall '11

Cloud Computing: Developed a framework to enable the GE's Concorda Software suite to be easily executed in a cloud computing environment, which provides reliable, fast computation with linear speedup and an interface for clients to monitor their job status using **Java**. The implementation was tested on **Amazon's EC2** and **Cornell's Red Cloud**.

Design of Unix Operating System

Fall '09

System Call of Linux for Windows: Developed a library and an automatic code generator to emulate the System Call provided by LINUX i.e. fork, pipe on Windows using WIN32 API, Context Free Grammar, **LEX**, **YACC** and automated parsing.

Data Compression and Encryption

Fall '09

Automation & CAPTCHA Decoding: Implemented a script to automate the reservation process of www.ircrc.co.in which included decoding of a CAPTCHA image using Javascript, Greasemonkey, **PHP**, GD Library and histograms.

Relevant Coursework

Operating Systems, Operating Systems Practicum, Cloud Computing, Introduction to Database, Introduction to Algorithms

PROFESSIONAL EXPERIENCE

Cornell University, GRA, Prof. Ken Birman's Group

Spring '12

- Monitoring the **Smart Grid** using the current Cloud framework.
- Designing a low latency, highly reliable, consistent and robust system using **Isis 2**, which could be used to control the smart grid and track blackouts within a couple of seconds.

Infosys, Test Engineer, Finacle, an online banking system

July '10 – July '11

- Testing of Payments, Funds transfer and Trade finance modules of Finacle using firestone.
- Worked in a Team of **40+ Employees** and mentored 2 newly joined test engineers.

Infosys, Intern, Education & Research

Spring '10

- Implemented a Compiler for C with support for new Data types: Dynamics Arrays, Stack, Queue, Hash using **Perl**, **Yapp** (Yet another Perl Parser compiler), Context Free Grammar, Scanner generation and Parser generation.
- Responsibilities include implementation of the Data structures module and integration of modules.

TECHNICAL SKILLS

Languages : C, C++, Java, Python, Perl, SQL, PROLOG, Pascal
Web Technologies : JavaScript, PHP, HTML, ASP, WML
Framework and Tools : Hadoop, MapReduce, Oracle, LEX, YACC

ACADEMIC HONORS

- Received a **Scholarship** of 32612 USD from Aga Khan Foundation for study at Cornell University.
- Awarded **Best Performer** among 700 interns by Infosys.
- C coding Competition, Nirma University (2nd Place).

RESEARCH EXPERIENCE

Multi Processors, Advanced Systems, Cornell University

Fall '11

Delivered a presentation on the design of DISCO, a Virtual Machine Monitor and Tornado, a Scalable SMMP OS.

EXTRACURRICULAR

- Author of the blog www.hungry-hackers.com which is ranked 75 among Indian blogs by indiblogger.com, has a Google Page Rank of 4 and gets 200000+ viewers/month.