

## **Shaminoo Kapoor**

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### **Summary**

Currently a Masters student at the University of Washington in the Department of Applied Mathematics. Previous industry experience as a Software Engineer(computer programmer) with great communication and collaborative skills.

### **Present Educational Background**

Pursuing full time MS in Applied Mathematics from University of Washington(ending June 2011)

G.P.A - 3.7

### **Math tools:**

1. Proficiency in Matlab, Fortran, Python, clawpack useful in mathematical modelling and visualisation

### **Talks and Presentations:**

1. Presented talk on Finite volume methods for hyperbolic problems, via traffic flow problem with real data using python and fortran.
2. Presented a talk on Reduced order modelling using Krylov subspace methods.

### **Reading and Study:**

1. Advisor: Prof. Andrea Barriero. Publication: *Bifurcation theory explains waveform variability in a congenital eye movement disorder.*
2. Advisor: Prof. Andrea Barriero. Publication: Memory without feedback in a neural network by Goldman.
3. Advisor: Prof. Anne Greenbaum. Publication: Reduced order modelling using Krylov subspace method by Boris and Behnam

### **Previous Educational Qualifications**

Bachelor of Engineering (Computer Science)

1999 - 2003

Maharishi Dayanand University

Institute of Technology and Management, Gurgaon, Haryana - India

### **Previous Research Experience**

Research Project(Final year degree) : Digital Image Watermarking. The project deals with digital image processing in software called horatio using cryptography. It deals with development of new software for authentication and verification of images. Algorithm was written to encrypt and decrypt the images using C as programming language.

Research Project(Second year degree) : E-10B telephony. This project was done in the Department of Communication of India. It involved working on the electronic switching system E-10B. E-10B is an urban exchange system, its main principle was separation of switching functions from operations and maintenance. This gave an opportunity to work with Voice Over IP(VOIP) technology that was in elementary stages in India during that time. The project involved analysis of the system by testing it under given matrices and presenting a report.

### **Other Achievements**

Meritorious position in Math Olympiad.

Scholarship in last two years of high school.

Active participation in cultural events of school at national levels.

### **Programming Languages**

Interface Languages : C, C++, C#

Numerical Computing language : Matlab, Simulink

Programming Framework: ASP.Net

### **Professional Experience**

#### **Summary**

- Strong background in developing web applications using C#, ASP.NET, SQL, XML, HTML, Javascript, IIS.
- Proficiency in Object Oriented Design and Development. Performed development adhering to Software Development Life Cycle. Efficient in Debugging, Performance tracking tools and profiling.
- Web services development using SOAP(Service oriented architecture and protocol) and REST(Representational state transfer) architecture.

#### **MySpace.com, Seattle WA**

**Sept'07 - June'09**

##### **Software Development Engineer**

MySpace.com is one of the major social networking website. As a Software Development Engineer, developed website's new features and improvised on existing. Major contribution included developing the 'Invite friends' module that would help in getting more users for the site, that in turn would increase the company's revenue.

#### **Getty Images, Seattle WA**

**May'07 - Sept'07**

##### **Software Development Engineer**

Getty Images has one of the largest collections on image and film collections. As a Developer on UI frameworks team, mainly concentrated on front end features, including home page along with web sites performance.

#### **Microsoft Corporation, Redmond WA**

**Nov'06 - May'07**

##### **Software Design Engineer**

As a team member of LMS(learning management System), developed and tested various functional modules. LMS provides the employees of Microsoft an online facility to schedule for courses online, the courses are meant to keep the employees updated technically.

**Global Cynex InCorporation, Bellevue WA**

**Feb'06 - Oct'06**

**Software Engineer**

Responsibilities as Software Engineer included developing company's web site using microsoft technologies such as C# and ASP.NET. Also worked on Flash action script for developing User Interface and SQL for database transactions.

**MTNL Mumbai, India**

**Jan'05 - Nov'05**

**Software Engineer**

Developed Graphical User Interface (GUI) for new line registration for MTNL call center. This facility allows building customer relationships by fulfilling customer requests. It gathers and analyzes the information it needs to gain an insight into customer and business.

**C-Dot New Delhi, India**

**Jan'04 - Nov'04**

**Software Design Engineer**

Involved in testing of an Employee Information Service Consolidation application to enable employees to view their information with single sign on facility. The employees could update/view their information contact info, earnings, taxes, holidays, insurance plan etc. via single site without logging to different websites for each service.

**References:**

Prof. Loyce Adams: [adams@amath.washington.edu](mailto:adams@amath.washington.edu)

Prof. Andrea Barreiro: [barreiro@amath.washington.edu](mailto:barreiro@amath.washington.edu)

Prof. Anne Greenbaum: [greenbau@math.washington.edu](mailto:greenbau@math.washington.edu)