

Shaminoo Kapoor

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Contact: (206) 859-0996

Summary

Masters degree at the University of Washington in the Department of Applied Mathematics.
Bachelors degree in Computer Science. Previous industry experience as a Software Engineer with great communication and collaborative skills.

Educational Background

1. MS in Applied Mathematics from University of Washington, G.P.A - 3.74 (Jan2010 - June 2011)
2. Bachelors of Engineering, Computer Science

Math tools:

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

Programming Languages:

Interface Languages : C, C++, C#

Numerical Computing language : Matlab, Fortran, Python

Programming Framework: ASP.Net

Talks and Presentations:

1. Talk on Finite volume methods for hyperbolic problems, via traffic flow problem with real data using python and fortran as a final exam presentation
2. Talk on Reduced order modelling using Krylov subspace methods as Masters talk and Numerical Analysis Journal Club talk

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 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.

Professional Experience

- 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

Getty Images, Seattle WA

May'07 - Sept'07

Software Development Engineer

Microsoft Corporation, Redmond WA

Nov'06 - May'07

Software Design Engineer

Global Cynex InCorporation, Bellevue WA

Feb'06 - Oct'06

Software Engineer

References:

Prof Loyce Adams : adams@amath.washington.edu

Prof Andrea Barreiro : barreiro@amath.washington.edu

Prof Anne Greenbaum : greenbau@amath.washington.edu