

# Syed Moshir Murshed

## Curriculum Vitae

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### Personal Information

*Address* Kapellenweg 3  
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*Date of Birth:* 31-12-1981

*Nationality:* Bangladeshi

*Marital Status:* Single

**Interests** Parallel computing, Algorithm implementation, Performance optimization, GPU programming, SOA, Windows and Web programming, OpenCL.

### Education

03/2009 – Present *M.Sc., Software Technology* (in progress, expected October 2010)  
Stuttgart University of Applied Sciences, Stuttgart, Germany  
Thesis: *Implementing a CCP-Algorithm in OpenCL*  
Adviser: Prof. Dr. Peter Hauber  
Company: Carl Zeiss Jena GmbH  
Supervisor: Dr. rer. nat. Volker Kuhlmann

10/2000 – 08/2008 *B.Sc., Computer Science*  
American International University Bangladesh, Dhaka, Bangladesh  
Thesis: *Implementation and Development of Smart Client Application*  
Adviser: Asst. Prof. Moshir Rahman  
GPA: 3.39/4.0

04/1996 – 05/1998 *Higher Secondary School Certificate Examination*  
Government Science Collage, Dhaka, Bangladesh.

01/1986 – 04/1996 *Secondary School Certificate Examination*  
Motijheel Model High School and College, Dhaka, Bangladesh

### Employment

04/2010 – Present *Master Thesis*  
Carl Zeiss Jena GmbH, Oberkochen, Germany

08/2009 – 04/2010 *Student Programmer*  
Poolarsserver - Schwägerl + Friedle GbR, Stuttgart, Germany

03/2006 – 09/2008 *Software Engineer*  
Adaptive Enterprise Limited, Dhaka, Bangladesh

04/2004 – 02/2006 *Freelance Programmer*  
Freelance, Dhaka, Bangladesh

## Research and Development Experience

### M.Sc. Thesis work

- M.Sc. thesis at *Carl Zeiss Jena GmbH* focuses on *optimization* and *performance* of an algorithm in ATI implementation of OpenCL, the platform and hardware independent open computing language for data parallelization in GPU. Thesis work includes implementing an algorithm and integrating in existing software platform for Carl Zeiss's CCP, record performance and improvise the computation time by optimizing the OpenCL algorithm, comparing the computation results with respect to both performance and polishing process quality with the GPU kernel and existing compute kernel in CPU. Moreover, comparison of *single precision* and *double precision* computation results in terms of performance and computation accuracy is also within the scope of the thesis.

### M.Sc. Class Projects

- *Software project - SkillFair*  
Joint work with five international students as the course Software Project. SkillFair is job posting web application using GWT(Google web toolkit), Java and MySQL. Interesting features include CAPTCHA, job agent, Google map integration, RPC.

### Poolarserver

- Worked as an asp.net programmer for the ASP.NET based poolarserver solution targeted specially for architects to version control files [e.g. drawing files, zips], share large files with different branches in the world, manage different phases of a project's life cycle, intra-extra net management, Wiki, time attendance.
- Tasks involve on building user interface, writing client interaction and server codes. Poolarserver architecture makes use of browser's xmlHTTPAJAX request and build the conditional HTML response. Request and response object models were handled by JSON. For DOM manipulation and java script handling we used jQuery remarkably [Other technologies Microsoft LINQ-to-SQL, SQL2005 Express].

### Adaptive Enterprise Limited

- Worked as a full time engineer directly with a team in the US in the process of migrating CardAccess System from Delphi 6 to Microsoft.NET.
- Design and Develop a brand new ASP.NET AJAX web application for the existing desktop solution. The web application is used to configure the CardAccess system through intra-net.
- Create a module of an large, enterprise scale application to migrate from Delphi 6 to Microsoft .NET using technologies and design patterns like .NET remoting, windows service, .NET CodeDom and MS Composite UI Application Block. Interesting features of this module involved global event broadcasting, creating a small editor with syntax highlighting for VB.NET and C# syntax, compile the code and bind the code to execute recurrently in CardAccess System [Other technologies Entity framework, SQL2005].
- A hybrid .NET windows application combined with Microsoft Windows Presentation Foundation [WPF] and classic windows forms to monitor CardAccess system events in 2D visualization for facility monitoring stations[Other technologies: Entity framework, SQL2005, CAB].

### Freelance

- *Daily Job Logger*  
Built for a telecommunication company, web interface built with ASP.NET AJAX and AJAX Control toolkit. It uses .NET framework v2.0 and SQL 2005 Express.
- *Classified web site for selling used bikes*  
Built on .NET framework v2.0 with ASP.NET and SQL2005 Express on the back-end.
- *Document Management System*  
For a telecommunication company in Bangladesh to manage interdepartmental flow of paper documents to digital documents. Technologies involved ASP.NET and SQL2000.

- *Registration Form Management System*

For a telecommunication company in Bangladesh to keep subscriber information paper into digital format and maintain the inter department flow. Technologies: ASP.NET with C# and SQL2000.

## Technical Skills

- Programming Language: C#[advanced], JAVA[intermediate], HTML, Java-script, CSS, jQuery[advanced], SQL[intermediate], OpenCL.
- Technologies: Microsoft .NET[2.0, 3.5, 4.0], AJAX, ASP.NET, WPF, WCF, XAML, Web-Service, .NET Remoting, Reflection, ATI Stream computing, Silverlight.
- Development Environment: MS Visual Studio [2005, 2008, 2010], NetBeans.
- Source Controller: Visual Source Safe, Microsoft Team System, SVN [TortoiseSVN].
- Special Tools: CodeSmith, Enterprise Library, Composite UI Application Block [CAB],  $\LaTeX$ .

## Language Skills

- Bengali: Mother tongue
- English: Fluent
- German: Basic
- Hindi: Basic

## Online Publications

- Send E-Mail from your .NET application using GMail Account available under <http://www.codeproject.com/KB/IP/SendMailUsingGmailAccount.aspx>.
- Encrypt and Decrypt important data with C# available under <http://www.codeproject.com/KB/cs/Cryptography.aspx>.
- Read and Write Config Files with an Object Oriented Style with .NET 1.1 available under <http://www.codeproject.com/KB/cs/ReadWriteConfig.aspx>.
- Webblog <http://moshiur.wordpress.com/>

## Interests

Music, traveling, cycling, cooking

## References

Dr. Volker Kuhlmann [Carl Zeiss Jena GmbH]  
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E-Mail: [v.kuhlmann@zeiss.de](mailto:v.kuhlmann@zeiss.de).

Prof. Dr.-Ing. Matthias Friedle [Poolarserver Schwägerl + Friedle GbR]  
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Prof. Dr. Peter Hauber [Stuttgart University of Applied Sciences]  
Schellingstr. 24 - D70174 Stuttgart  
Phone: +49 (0)711 8926 2715, Fax: +49 (0)711 8926 2553  
E-Mail: [peter.hauber@hft-stuttgart.de](mailto:peter.hauber@hft-stuttgart.de).

Oberkochen, August 16, 2010