

Mohammad Farhan Husain

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Objective:

Seeking summer internship as a software engineer where I can apply my knowledge and experience.

Education:

University of Texas at Dallas, Richardson, TX
Pursuing an M.Sc. degree in Computer Science

Expected date of graduation: December 2008

Bangladesh University of Engineering and Technology (B.U.E.T.), Dhaka
B.Sc. in Computer Science and Engineering

Graduated: September 2004

Work Experience:

Grameen Software Limited

March 2006 – August 2006

Software Engineer – Full Time

- Worked on different layers of SSH protocols e.g. RFC 4253, RFC 4252 and RFC 4254.
- Worked in Asset Tracking software development project as a developer.

Eyeball Networks Inc.

September 2004 – February 2006

Software Engineer – Full Time

- Developed a [Video Communication SDK](#) with C++ in Linux in a team. The SDK was for an embedded system running µLinux.
- Worked in [SIP Proxy and registrar server](#) for development and testing.
- Developed [STUN-TURN server](#).
- Developed SIP Proxy test client in Linux.

Institute of Information and Communication Technology, B.U.E.T.,
Java Instructor – Part Time

September 2003 – December 2003

- Worked as part-time instructor for Java courses.

John Cooper, COOPERS', Dhaka,

July 2002 - February 2003

IT Consultant – Part Time

- Designed and implemented database system.
- Used Oracle 8i, Visual Basic and Microsoft Data Report.

Project Experience:

Police Blotter Analyzer (UTD)

An applet which provides spatial and temporal view of crimes which took place in multiple jurisdictions. It also analyzes correlation among crimes and help analysts relate events. Oracle 10g is used in back end.

STUN-TURN Server (Eyeball Networks Inc.)

A STUN-TURN server developed with C++ in Linux. Used MySQL to store user information and OpenSSL for TLS connections. The server is an important element of Eyeball Networks Inc.'s **Any-Firewall™** technology.

SIP Proxy and Registrar Server (Eyeball Networks Inc.)

A SIP proxy with registrar developed with C++ in Linux. MySQL was used to store address of records.

Video Communication SDK for µLinux (Eyeball Networks Inc.)

A C API SDK for video communication in µLinux using C++ in Linux. It used SIP for signaling, SIMPLE for messaging and presence and supported various codec's for audio and video. It incorporated **Any-Firewall™** and **Any-Bandwidth™** technology of Eyeball Networks Inc.

SIP Proxy Test Client (Eyeball Networks Inc.)

A client program to test the SIP proxy server using C++ in Linux.

CDROM/DVDROM Tray Controller (Open Source)

A program to eject/close trays of available CD-ROM/DVD-ROM's, written in Visual C++ using Win32 APIs. The project is uploaded in Sourceforge.net (<http://sourceforge.net/projects/traycontroller>) with a GPL license.

Student database system (Spring 2003, B.U.E.T.)

Oracle 8i was in the Back End, Visual Basic in the Front End, and Crystal Report for printing reports.

3d Modeling (Fall 2001, B.U.E.T.)

3d modeling software in C. Simple 3d objects can be modeled here and viewed from any angle with zoom-in zoom-out capabilities.

Email server (Spring 2002, B.U.E.T.)

A complete email server in Java with customized protocol.

Email client (Freelance project)

- An email client in Java which uses Extended SMTP protocol to send and POP3 protocol with authentication to receive mails.
- Base64 encoding.

- Facility to compose mails and organize them in folders.

Technical Expertise:

- **Programming Languages:** C, C++, Java, Visual C#, Visual C++, Visual Basic, Assembly Language, HTML, XML, Prolog and SQL.
- **Protocols:** SIP (RFC 3261), STUN (RFC 3489), TURN (draft-rosenberg-midcom-turn-08), ICE (draft-ietf-mmusic-ice-06), SIMPLE, SDP (RFC 3264), XMPP (RFC 3921), SMTP (RFC 2821), POP3 (RFC 1939).
- **Development Tools:** GCC, GNU Debugger, GNU Profiler, GNU Make Utility, DMalloc, Strace, Mtrace, Electric Fence, Valgrind, Concurrent Versioning System (CVS), Subversion, Mantis Bug Tracker, Ethereal, VIM, Emacs.
- **Libraries:** STL, OpenSSL, MySQL++.
- **Platforms:** Windows 98 SE, Windows 2000 Professional, Windows XP, Windows 2003 Server, MSDOS, Red Hat Linux 7.3, Red Hat Linux 9.0, Red Hat Linux 9.0 Enterprise, Red Hat Linux Fedora Core 2, Sun Solaris 10 and µLinux.
- **Databases:** Oracle 8i, MySQL, and Microsoft Access 2000.

Some Graduate and Undergraduate Coursework:

Design and Analysis of Algorithms	Advanced Operating System	Machine Learning
Data Mining	Artificial Intelligence	Computer Networks
Data and Application Security	Combinatorics & Graph Algorithms	Theory of Computation
Data Structure	Database	Computer Graphics
Compiler	Software Engineering	Information System Design