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Career Objective

To make the best use of my technical expertise in logic development & data analysis in a research based career; hence to acquire and apply advanced knowledge in a particular field, “**Bioinformatics**”

Research Interests

- ❖ Cell Cycle Modeling
- ❖ DNA Sequencing
- ❖ Comparative Genomics
- ❖ Application of ‘Bioinformatics’ in drug discovery/design

Academic Background

Graduate Student (PhD program)

Genetics, Bioinformatics & Computational Biology (<http://www.grads.vt.edu/academics/programs/gbcb>)
Virginia Polytechnic Institute & State University (Virginia Tech, <http://www.vt.edu>)
Expected graduation on 2013

B.Sc. in Computer Science & Engineering

Bangladesh University of Engineering & Technology (BUET, <http://www.buet.ac.bd>)
Graduation completed on February 2004
CGPA 3.77 in the scale of 4.00 (**with honors grade**)
Undergraduate Thesis on “*Static Caching in Dynamic Webservice*”

HSC (Higher Secondary Certificate), equivalent to ‘A’ level

Viqarunnisa Noon College, Dhaka Board (Science Group), Bangladesh
Passing Year: 1997; scored 908 in total 1000 (**90.8% marks**)
Country wide merit list position: **14th** among around half million students

Academic Achievements and Scholarships

- ❖ GBCB Fellowship (2009-2010, Virginia Tech)
- ❖ Dean’s Merit Scholarship for maintaining “Honors” grade in junior & senior years, BUET
- ❖ Ranked in the top 1% among 5000 prospective applicants in the most competitive BUET entry examination, 1998
- ❖ Placed in top 1% of combined merit list in public examinations (SSC, HSC) by Ministry of Education, Bangladesh and qualified for Education Board Merit scholarships

Major Academic Projects/Research

❖ Present Research Affiliation:

Currently working in the [JigCell](#) project of Dr. Tyson's group; working to improve the 'Model-builder' and 'Aggregation Connector' to give a better platform for modeling and simulating various types of multistate and multispecies reactions.

❖ Previous Research Work:

- **Information System Analysis for Banks:** As a part of the "Information System Design" project work in undergraduate level, different banking systems like ATM, SWIFT, PoS had been analyzed based on their connectivity/ network structure, performance, security & transaction patterns.
- **Undergraduate Thesis ("Static Caching in Dynamic Web Service"):** Performances of any "Web Service" depends on the ability of efficiently and effectively sharing of the component services from different providers. A framework with lookup table structure was proposed to reduce the cost of choosing component services and thus improve the response time of dynamic composition of a composite Web Service. Simulation was done using J2ME on Apache.

Technical Skills

- ❖ **Programming Languages:** Java (JSP, EJB & Webservice technologies with Security), Visual Basic, Dot Net, C/C++, Perl, Awk, Unix shell scripts, PL/SQL, Assembly Language, OpenGL, Prolog, Lex, Yacc
- ❖ **Script Languages:** PHP, ASP, AJAX, XML, HTML, VBScript, JavaScript, Python, Perl
- ❖ **DataBase Server:** Oracle8i/9i/10g over Linux/ Sun Solaris, MS Access 97/200, MySQL
- ❖ **Platforms/Servers/Tools:** Windows 98/2000/NT/XP, Linux, Sun Solaris, HP-UX, Apache Server, Matlab
- ❖ **Network Protocols:** TCP/IP, X.25, SS7, SMPP, HTTP, LDAP

Professional Training

- ❖ **Architecting and Designing J2EE Applications by Sun Microsystems, Singapore(SL-425)**
Contents: J2EE component technologies, J2EE Patterns for large-scale enterprise systems, iterative and incremental development process considering design issues
- ❖ **Advanced Business Component Development With Enterprise JavaBeans Technology by Sun Microsystems, KL, Malaysia (SL-351)**
Contents: advanced issues in component development with EJB technology, Java Messaging Service API, Java Persistence Query Language

Professional Experience

Feb 2005 – Jul 2009

Grameenphone Ltd. (Pioneer mobile operator in Bangladesh, an affiliate of Telenor Norway)

Road. No. 113, Gulshan-2, Dhaka-1212, Bangladesh

<http://www.grameenphone.com>

Deputy Superintendent Engineer, Service Software Development & Integration, IT

Job Responsibilities

- ❖ Analysis, design & implementation of different services & products following formal software development lifecycles
- ❖ R&D on customer database and data-mining for better service delivery
- ❖ Take part in analysis phase of different network management & monitoring applications

Accomplishments

- ❖ Designer and core developer of “**Technical Access Platform for Systems(TAPS)**”, a hugely used tool (hit per second is around 20) by Grameenphone Ltd. TAPS is a multi tier secured **webservice based tool** mainly designed for multi level access control to different NEs like HLR, MSC, OSS, Minsat specially for security protection. It is used by Customer Care team, CRM and different other internal tools as a means to access the network elements.
- ❖ IN & VAS services like SMPP based push-pull services, provisioning systems
- ❖ Various **secured web service based** projects and Mediator, MFM(**Monthly Fee Management**) tool and **Customer Care GUI** for different systems

Feb 2004 – Feb 2005

Alap Communication Ltd. (<http://www.alapcom.com>), Safura Tower, Banani C/A, Dhaka - 1213

Software Engineer

Accomplishments

- ❖ One of the leads of the design team of the **IP based telecom soft-switch** for BanglaPhone on Linux Platform (Language: Java / C / Assembly)
- ❖ Designed & coded the driver software for **PSTN/PLMN gateway** interface device (C/C++)
- ❖ Implemented “Inventory Management System” with Barcode reader (Language: VB, Database: MS Access)

Reference

Available upon request.