

Turja Kundu

Software Engineer

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SUMMARY

- **Design & Integration:** Excellent design and integration skills. Skilled in development and architectural systems research. Interested in a challenging technical track career in an application development environment.
- **Problem Solving:** Dynamic, results-oriented problem solver. Combine patience, determination, and persistence to troubleshoot client issues.
- **Communication & Team Work:** Excellent written and verbal communication skills. Possess strong commitment to team environment dynamics with the ability to contribute expertise and follow leadership directives at appropriate times. Works well in challenging, fast-paced, high-stress and deadline-oriented environments individually or as part of a team.
- **Requirement Analysis & Documentation:** Excellent requirements analysis skill and high quality, clear and concise documentation capability.

CORE COMPETENCIES

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|----------------------------|----------------------------|
| • Self Motivated | • Fast Learner |
| • Result Driven | • Customer focused |
| • Strong Analytical Skills | • Critical Problem Solving |

AREA OF TECHNICAL EXPERTISE

- **Programming Language / API / Framework:** C, C++, Java, Struts2, Python, BSD Socket API, Android NDK, Assembly language, Prolog, OpenGL, Hibernate, JSP, C#, ASP.Net, WCF, Win32.
- **Platforms:** Windows, Linux (Centos), Android, Symbian .
- **Web Development:** Struts2, HTML, CSS, Bootstrap.
- **Scripting:** Shell Scripting, Python.
- **Databases:** MySQL ,MS SQL Server , Oracle11g.
- **Simulator:** Packet Tracer, WireShark.
- **Development Tools:** MS Visual Studio, Eclipse, Tomcat, HeidiSQL, GDB.
- **Source Control:** TFS, SVN.

EDUCATION

Education:

Bachelor of Science in Computer Science and Engineering (2012)

Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.

CGPA: 3.40.

PROFESSIONAL EXPERIENCE

Contract based Development for Spark mind Technology

August 2015 – Current

Project Works:

1. Retailer Billing Solution

- Overview: VoIP Switch and billing application is currently under beta testing. User interface is done in PHP CodeIgnitor framework with MySQL Database.
- Language/Framework: PHP CodeIgnitor, Bootstrap, Java Script, Ajax, Mysql.
- Platform: Linux.
- Role: Development
- Access link : <http://158.69.204.245:8081/>
- User name : admin ; Pass : admin

2. Android Application Development

- Overview: Dialer Application is successfully delivered for Android .It is now used by around 5k users. The application is used in that country where VoIP is blocked. Special block removal technology is implemented to bypass voice call.
- Language/Framework: Java .
- Platform: Android.
- Role: Development.
- Play store Link : <https://play.google.com/store/apps/details?id=com.blackDialer>

3. iPhone Application Development

- Overview: Dialer Application is successfully delivered for iPhone . The application is used in that country where VoIP is blocked. Special block removal technology is implemented to bypass voice call.
- Language/Framework: Objective -C .
- Platform: IOS.

- Role: Development.
- App store Link : <https://itunes.apple.com/us/app/blackdialer/id1081215460?ls=1&mt=8>

4. Content Management system

- Overview: A Web Application is developed by Struts2 Framework with Bootstrap to manage customers for dialer applications. The application is deployed in OpenShift Cloud.
- Language/Framework: Struts2 MVC framework, Bootstrap, JAX-RS API.
- Platform: Linux.
- Role: Development

ReliSource Technologies, Ltd. Dhaka.
August 2014 – August 2015

Software Engineer

Job Responsibilities:

- Requirement Analysis
- Designing and developing software
- Review codebase
- Bug fixing
- Prepare documentation related to software development process
- Conduct conference calls & team meetings with US clients

Project Works:

RSS

- RSS is a service oriented application to communicate with radio enabled temperature logger devices via RF Gateways. It is used to download temperature data from the temperature logger devices and send to remote platforms.
- Tools & Technologies Used: Microsoft Visual Studio 2012, WCF, ASP.NET MVC framework, Microsoft SQL Server, Stored Procedure, Triggers.
- I am responsible for writing windows service communication and updating RSS site manager.

Mir Technologies, Ltd. Dhaka, Bangladesh
April 2012 - August 2014

Software Engineer

Job Responsibilities:

- Project planning
- Requirement Analysis
- Designing and developing software
- Bug fixing
- Prepare documentation related to software development process

Project Works:

1. Billing and Call Routing

- Overview: Billing Software developed for the telecom operators who need to Interconnect with other incumbent telecom operator. Invoice Generation of Billing for inbound and out bound operators and clearance and Blocking Calls is key feature of it. Call Routing service is used for routing inbound and outbound calls in Soft Switch.
- Language/Framework: Java, Oracle11gs.
- Platform: Linux.
- Role: Development.

2. Proxy Server and Instant Messaging

- Overview: Proxy server is used in between dialer apps and Soft switch. Sip and RTP protocol are handled in Proxy server. Instant messaging is used in Dialer apps .Server side development is done with C++.Client side of Instant messaging apps is integrated with different mobile platforms.
- Language/Framework: Struts2 MVC framework,.
- Platform: Linux.
- Role: Development

3. IVR Services

- Overview: Configuration and Voice flow development for Interactive voice response Service(Tritio matra ,Radio G) which are successfully launched with Mobile Operators.
- Language/Framework: Python,Asterisk.
- Platform: Linux.
- Role:Development.

4. Web Development

- Overview: A Web Application developed by python Django MVC framework.

- Language/Framework: Django MVC framework,Html,CSS.
- Platform: Linux.
- Role: Development

ACADEMIC PROJECTS

Research

NAT Traversal Over VoIP.

Supervisor: Dr. Md. Humayun Kabir,

Associate Professor, Department of Computer Science and Engineering.

Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology

Academic Projects:

- **Simple OS implementation:** In this project we have implemented *Nachos* operating system. The system has following features: Multiprogramming, Shared Memory, File system.
- **Online Hotel Reservation System:** We used **Spring** mvc frame work and *Hibernate* object-relational mapping framework to implement this project.
- **Inventory Management System Analysis:** The software engineering process including Requirement Analysis, Use Case Analysis, Entity Relationship Diagram, Class Diagram, Sequence Diagram, State Chart Diagram and Input Output Interface Design.
- **Online Shop Management:** Database Project. Implemented using **ASP.NET** for front end and backed by a database in *Oracle11g*.
- **Web Server:** A multi-threaded Web Server that can render basic *HTML* and *PHP* pages using Get and Post method. Developed by *Java* Socket programming.
- **Network Layer Simulation:** Implemented Distance Vector Routing protocol for Network Layer Simulation where Ping and Trace route Command work. Developed by *Java*.
- **Simple DOS implementation:** Using System call implemented 8 DOS Command in **assembly language**.
- **Data Compressor:** developed a Data Compressor Using *C* using Lempel Ziv algorithm.

SUMMARY OF SKILLS

Platform				
	linux	Intermediate	.5 year ago	2 years
	Android	Intermediate	.5 year ago	0.5 year
	Symbian	Intermediate	1.5 years ago	1 year
	Windows,win32	Intermediate	1.5 years ago	1 year
Languages				
	C#	Intermediate	Currently Using	3 years
	Python	Beginner	1.5 years ago	1.5 years
	C/C++	Intermediate	.5 years ago	5 years
	Java	Intermediate	.5 years ago	5 years
RDBMS				
	MS SQL Server	Intermediate	.5 years ago	1.5 years
	Oracle	Beginner	3 years ago	1 year
	MySQL	Expert	1 years ago	2 year
Operating Systems				
	Windows – User	Expert	Currently Using	6 years
	Linux	Intermediate	Currently Using	3 year
	Android	Intermediate	1 years Ago	1 year
	symbian	Intermediate	2.5 years ago	0.5 year
FrameWork				
	Sturts2	Intermediate	Currently Using	.5 years
	Django	Bigginer	4 years ago	2.5 years