Resumes

* 1. Resume – Md. Shamsul Arifin

md shamsul arifin

Proposed Labor Category: software ENGINEER

Summary of Qualifications

* Experienced in integrating Opewrt packages, cross compiling and autotools.
* Experience in Android application development using Android SDK, Android NDK, Lint and eclipse
* Experienced in developing Platform Abstraction Layer for Android cross platform support.
* Experienced in porting native code in Android and Android NDK.
* Experienced in Database development using SQLite and MySQL.
* Developed web application backend and web services (SOAP/JSON) using ruby on Rails and MySQL.
* Experienced in developing in AGILE software development using git, mercurial and svn.
* Experienced in developing Web Services in ASP.net and Node.js
* Expertise in developing Web Service Clients on Javascript,Android, and angularjs
* Developed WPF based C# applications
* Strong expertise in using WEKA and Machine Learning Concepts
* Developed wsgi based web server using python bottle framework
* Developed text parsers for machine learning datasets and android UI xml in python.
* Expertise in Image Processing, Digital Signal Processing and Speech Processing
* Skilled at learning new concepts quickly, working well under pressure, and communicating ideas clearly and effectively.

Education

**Master’s Degree**, Computer Science and Engineering  
*University of Texas at Dallas*, USA 2016

**Bachelor’s Degree**, Computer Engineering  
*North South University, Dhaka, Bangladesh* 2011

Relevant Experience

Technuf LLC*, Rockville, MD*

**Software Engineer** Oct’18 – Present  
Project: Timesheet App

* Developed a web based timesheet application facilitating storage, approval, and analytics of employee work hours

Project: Aphelia StudentConnect

* Developed web services in Node.js and client portal in Javascript(JQuery) and Android implementing student registration, guardian registration, real time attendance storage and analytics
* Integrated Stripe in order to facilitate payments for student aftercare purchases
* Developed SMS server application facilitating SMS communication between school administrators and guardians through web portal

**Grandstream Networks**  
***Software Engineer***  ***Sep’16 – Dec’17***  
Project: GWN7000, GWN7610

* Developed captive portal solution using nodogsplash
* Integrated ddns scripts in GWN7000 with verified providers
* Modified mwan3 scripts to implement policy routing
* Implemented a bash based system monitor and opensmtpd mta to send system notifications as emails

*PonyUp Technologies*

**Software Developer** Mar’16 – Sep’10  
Project : VetCheqCloud

* Developed RESTful JSON based web services in Ruby on Rails, including authentication, binary file transfer, cron task scheduling and database migration
* Developed REST client application in angularjs and foundation, including session handling and binary file transfer
* Deployment of Rails/Angular based Webapp

Project: VetCheqApp

* Developed REST client application in Java and JavaFX
* Developed Bluetooth communicator using BlueCove in Java
* Setup Issue tracker(Bugzilla) and version control (Mercurial)
* Deployment of Java based windows executable

*iPhotonix***Software Development Intern** Aug’14 – Aug’15  
Project : iPhotonix ONT System Software

* Responsibilities: Development, modification and integration of different kernel and 3rd party modules within the system.
* Developed a bridging and vlan creation and modification library using bridge-utils and broadom vlan drivers
* Integrated libedit and ncurses library with command line utility and implemented enhancements like: command editing and history
* Developed a web based configuration file generator using javascript and python bottle framework
* Developed HTTP Digest Authentication (RFC 2617) module using thttpd webserver for CWMP
* Modified busybox syslog to filter log messages by their contents
* Redesigned database update and backup module. Used threaded backup from sqlite3 api for backup, POSIX message queue and UNIX Domain Sockets for notification.
* Integrated cryptographic functions(md5 sha512) with sqlite3 as sql functions
* Developed debugging tool for tracking of third party source packages from core dump

*North South University*

**Research Assistant** Jan’13–May’13

Project : Computer Vision based Traffic monitoring system to avoid hazardous situation

Responsibilities:

* Collecting Traffic related data for identifying hazard prone locations
* Developing prototype simulation model
* Developing the machine learning based monitoring system to test on simulations

*Eyeball Networks*

**Software Engineer Nov’11 – Oct’12**

**Project:** Eyeball Messenger For Android (<http://www.eyeball.com/products/sip-softphone/> )

**Responsibilities:**

* Developing an Android Application for Rich communication(text, file, audio/video) using NAT traversal technologies
* Developing Sqlite based Database Management system to store user activity(Call History, Chat History, File transfer history) on device
* Porting Networking Libraries from Windows to Android
* Designing full system documentation

*North South University*

**Teaching Assistant** Jan’10–Apr’10, May’11-Aug’11

Course title: Fundamentals of Programming & Lab, Data Structures And Algorithms Analysis & Lab

Responsibilities:

* Checking homework and providing solutions to homework problems
* Helping students with understanding the basic concepts of programming

Publications

* BANGLA – User Adaptive Isolated Word Speech Recognition using Spectral Analysis and Fuzzy Logic Conference name: International Conference on Enterprise Information Systems 2011
* Dermatological Disease Diagnosis using Color-Skin Images Conference name: International Conference on Machine Learning and Cybernetics 2012
* A Comparative Study of Bangla User Adaptive Word Speech Recognition Journal name: International Journal of Fuzzy systems Applications

Skills

* Programming Languages: Java, C/C++, C#, PHP, Ruby, Python, Javascript, Bash
* Operating Systems: Windows, Linux, Android
* Databases: Mysql, Sqlite
* Tools: Eclipse, Android Sdk, Android Ndk , Android Lint
* Concepts: OOP, Design Patterns, AGILE, Socket Programming, Multi-Threading, Semantic Web, Machine Learning, Computer Vision, Fuzzy Logic