

PRANJUL ARORA

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OBJECTIVE

To obtain a position as a Software Engineer, allowing to utilize my strong design and analytical skills gained through relevant education and work experience. I also seek the opportunity to learn new technical skills for future use.

EDUCATION

Syracuse University, College of Engineering and Computer Science, **Syracuse, NY**
M.S., Computer Engineering (Software Track)

GPA: 3.889/4.0
Expected May 2018

ITM University, Gurgaon, India
Bachelor of Technology- Information Technology

GPA: 7.76/10.0
May 2014

RELEVANT COURSEWORK:

Software Modelling Analysis : C# .NET (WCF, Multithreading, Delegates, Lambdas, WPF).
Advanced Data Structures : Searching, sorting, trees, hashing, graphs.
Object Oriented Design : C++ 11 using STL containers, templates, threads.
Android Programing : Recycler view, ViewPager, XAMMP Server, Adapter, Firebase, Animations.
iOS Programming : Swift 3, Firebase, Firebase- cloud functions.

TECHNICAL SKILLS AND INTERESTS

Programming Languages	C, C++ (Sockets, Multithreading), C++ CLI, C# .NET (WCF, WPF, Multithreading), Java 1.6/1.7, J2EE, Python, Swift 3, Shell scripting, SQL.
Web/Mobile Development	JSP, Servlets, JavaScript, JQuery, HTML, XML, iOS, Android.
TOOLS/IDE	Eclipse, NetBeans, Visual Studio, Android Studio, Xcode, Firebase, IBM RAD, IBM Websphere, JIRA, SVN, YUM, RPM.
Operating System	CentOS, Ubuntu, OS X, Windows, Linux.

ACADEMIC PROJECTS

Type-based Dependency Analysis and Remote Code Publisher (C++ Project)

Spring 2017

Technology Used: C++ (Sockets, Multithreading), C++ CLI, WPF, XML, HTML, CSS, JavaScript

- Developed a dependency-analysis tool and Remote code Publisher that performs dependency analysis and publishes them as web pages upon client request.
- Analyzer extracts lexical contents from source code files- **".h"**, **".cpp"** and **".cs"**. It then generates an Abstract Syntax Tree and analyzes it to build Type Table and find dependencies between set of files.
- Stores the dependencies using NoSQL Database.
- Publisher publishes the analyzed source code files as web pages and provides the facility to expand and collapse classes, functions and namespaces bodies using JavaScript.
- Facilitated users with lazy download, IIS feature and GUI.

NoSQL Database (C++ Project, Syracuse University) Spring 2017

Technology Used: C++, XML

- Developed a Key/Value in-memory database using unordered-map and templates persisted to XML File.
- Facilitated users with a Query Engine that let them query the database.

Workout Trainer (Android Project, Syracuse University)

Spring 2017

Technology Used: Java, XML, Firebase, JSON, Google API's, Facebook API, Maps, Animations

- Developed a fitness application that provides users with audio and visual feedback while exercising.
- Used Facebook API for login feature and Firebase to store information about user's daily schedule.
- Facilitated users with finding nearby gyms and its distance from their current location.

Test Harness (C# .NET Project, Syracuse University)

Fall 2016

Technology Used: C# .NET, WCF, WPF, XML, Multithreading

- Developed an Automation tool that tests the functionality of multiple client's codes concurrently.

- It provides users with continuous integration into the baseline (Local Directory used).
- Developed a query engine.
- Used WPF to facilitate user with Interface for XML input, uploading files and output.

Syracuse Shuttle App (IOS Project, Syracuse University)

Fall 2016

Technology Used: Swift, MVC Framework

- Developed a shuttle registration application that enables students to register for a shuttle and facilitates driver by displaying destinations on Map (Integrated Google map) with shortest route to navigate.

HealthCare@ICT (Major Project, ITM University)

Mar 2014

Technology Used: Java, JSP, Servlets, SQL, JavaScript, JQuery, Apache Tomcat 7

- Designed a web-application (Frontend- JSP and Backend- Servlets), to provide support to rural patients with antenatal care by blood pressure and heartbeat sensors connected to patient's body.
- Client (connected to Patient) sends data to self-responsive Backend (Hosted on a centralized server), which in turn responds with necessary prescription and stores data in the database to maintain records.

TECHNICAL EXPERIENCE

Up2Code (New York City, New York)

May'17 – July'17

LOUDSCORE

Technology Used : Swift 3, Firebase, cloud functions

- Developed an iOS application which gives users real-time information on their favorite bars and restaurants.
- Used Firebase for application's backend and cloud functions to manage server side functionality.

NEC Technologies India Private Limited (Noida, India)

Sep'14 – July'16

ClusterPro Replacement (HydraSTOR's Component- NEC Product)

Technology Used : Python, shell scripting, Open Source Software- Pacemaker, Corosync, and DRBD

- Gathered requirements and formulated them to develop a design for replacement of a distributed grid management system without impacting other components and existing frameworks.
- Implemented replacement using Open Source Software- Pacemaker, Corosync, Distributed Replicated Block Devices (DRBD).
- Used Python to write wrapper scripts for support to other components.

Start-Stop Automation Tool

Technology Used : Java, Shell Scripting, XlxsWriter, JavaScript.

- Involved in the analysis of requirement specifications and technical aspects of the tool.
- Developed an automation tool measuring HYDRAsTOR system's start-stop performance.
- Used XlxsWriter to create an excel sheet for displaying shutdown, boot-up and restart time.

Mobile Surveillance System

Technology Used : Java, JavaScript, Bootstrap, Hibernate, MySql.

- Worked on requirement gathering and development, in close coordination with the NEC's Singapore Team.
- Developed user interface using JavaScript, Bootstrap and HTML for the System which is responsible for sending the crime scene coordinates to the nearest officer based on smallest ETA.
- Used Google Maps API to find coordinates and send them.

Jabong.com (Gurgaon, India) May'13 – July'13

Server Monitoring Tool

Technology Used : C# .NET, WCF, WPF, XML

- Solely developed a server monitoring tool that reports the status of the services hosted on any of the Jabong Servers.
- Created XML Parser to convert client's Xml input to string format.
- GUI based on WPF provide users with Tachometer representation for displaying Process activity.