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**   **GPA: 3.889/4.0**
M.S., Computer Engineering (Software Track)   *Expected May 2018*

ITM University, **Gurgaon, India**   **GPA: 7.76/10.0**
Bachelor of Technology- Information Technology   *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	iOS, Android, XML, JSP, Servlets, JavaScript, Jquery, HTML.
TOOLS/IDE	Eclipse, NetBeans, Visual Studio, Android Studio, Xcode, Firebase, GIT, IBM RAD, IBM Websphere, JIRA, SVN, YUM, RPM.
Operating System	CentOS, Ubuntu, OS X, Windows, Linux.

TECHNICAL EXPERIENCE

Graduate Teaching Assistant, Syracuse University   *Aug'17 – Present*

Android Programming Course
The objective of this coursework is to develop an appealing and professional-looking user interface in mobile applications. The course also focusses on learning core java programming languages features and servers-side programming needed to develop maintainable mobile apps comprised of core Android components.

iOS Developer Intern, Up2Code NYC, NY   *May'17 – July'17*

LOUDSCORE
Technology Used   :   Swift 3, Firebase, JavaScript (cloud functions)
- Developed an iOS application which gives users real-time information on their favorite bars and restaurants.
- Facilitated users with Apple Maps to find restaurants and interactive sliders to rate them.
- Used geo-fencing to restrict users from rating a restaurant without visiting it.
- Used cronjobs(HTTP request) to invoke cloud functions which manage old-ratings on the server.

Software Engineer, 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.

Software Developer Intern, 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 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.

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.
- Developed a WPF GUI to facilitate users with an interface for XML inputs, uploading files, displaying output and a query system to get data from the repository (Local Directory used).

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.