PRANJUL ARORA
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OBJECTIVE: Actively seeking full-time employment as a software developer to work in modern technologies.

EDUCATION

Master of Science, Computer Engineering (Software Track)	**GPA: 3.895/4.0**
Syracuse University, Syracuse, NY	*May 2018*

Relevant Coursework: Object Oriented Design, Software Modelling Analysis, Advanced Data Structures, Design Patterns, Computer Security, Android Programming, Mobile Application Programming(IOS).

Bachelor of Technology- Information Technology	**GPA: 7.76/10.0**
ITM University, **Gurgaon, India**	*May 2014*

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages** : C++ (Sockets, Multithreading), C# .NET (WCF, WPF, Multithreading), Java, Swift-3, Shell scripting.
- **Web/ Mobile Development** : iOS, Android, XML, JavaScript, HTML, J2EE Technology- Java Servlets, JDBC, JSP, Servlets.

PROJECTS

Type-based Dependency Analysis & Remote Code Publisher- **C++ (Sockets & Multithreading), XML, CSS, JS**   *Feb 17 – May 17*
- Developed a dependency-analysis tool and Remote code Publisher that performs dependency analysis and publishes them as web pages.
- 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 a set of files which get stored using NoSQL database.
- Publisher publishes the analyzed source code files as web pages and provides the facility to expand and collapse classes, functions bodies.

NoSql DataBase- **C++, XML**   *Jan 17 – Feb 17*
- Developed a Key/Value in-memory database using unordered-map persisted to an XML file.
- Implemented a template class to store Key/Value pairs with meta-data and child relationships with other values.
- Implemented a query mechanism to support complex queries from the database.

Test Harness- **C#.NET, WCF, WPF, XML, Multithreading**   *Aug 16 – Dec 16*
- Developed an Automation tool that is based on a client-server architecture to automate and ease integration testing.
- The Tool tests the functionality of multiple client's codes concurrently and generates detailed test reports and send it back to the client.
- Developed a WPF GUI for XML inputs, uploading files, displaying output and a query mechanism to retrieve previous records from the repository.

Workout Trainer (Android Project)- **Java, XML, Firebase, JSON, Google and Facebook API's**   *Apr 17 – May 17*
- Developed a fitness application that provides users with audio and visual feedback while exercising.
- Integrated-Text to speech, YouTube API, Location services, broadcast receivers. Used Facebook API & Firebase for data storage and authentication.

TECHNICAL EXPERIENCE

Graduate Teaching Assistant (Android Programming Course), Syracuse University, NY   *Aug 17 – Present*
- The objective of this coursework is to learn all components of Android and server-side programming to build a full-fledged application.
- Responsibility includes conducting regular help sessions to help graduate and undergraduate students with concepts and assignments.
- One of my core responsibilities is to demonstrate examples of android concepts in the class.

iOS Developer Intern, Up2Code, NYC, NY   *May 17 – July 17*
- Technologies Used- Swift 3, Firebase, JSON, JavaScript in cloud functions
- Developed an iOS application which gives users real-time information on their favorite bars and restaurants and interactive sliders to rate them.
- Facilitated users with Apple Maps to find restaurants and 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.

Member Technical Staff, NEC Technologies India Private Limited, Noida, India   *Dec 14 – July 16*
   ClusterPro Replacement (HydraSTOR's Component- NEC Product)
- Technologies 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.
- Developed a Proof of concept and a prototype for replacement using - Pacemaker, Corosync, Distributed Replicated Block Device (DRBD).
   Start-Stop Automation Tool
- Technologies Used- Python, shell scripting.
- 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.

Software Developer Intern, Jabong.com, Gurgaon, India (C#.NET Project)   *May 13 – July 13*
- Solely developed a server monitoring tool that reports the status of the services hosted on any of the Servers.
- GUI based on WPF provide users with Tachometer representation for displaying Process activity.