

PRANJUL ARORA

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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

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

ITM University, Gurgaon, India

Bachelor of Technology- Information Technology

GPA: 7.76/10.0

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, JSP, Servlets, JavaScript, HTML.
- **Software** : Eclipse, NetBeans, Visual Studio, Android Studio, Xcode, IBM RAD, IBM Websphere, GIT, JIRA, SVN.

PROJECTS

Type-based Dependency Analysis & Remote Code Publisher- C++ (Sockets & Multithreading), XML, CSS, JS

Spring 2017

- 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.
- Facilitated users with- lazy download, IIS feature, and GUI.

NoSql DataBase- C++, XML

Spring 2017

- 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

Fall 2016

- 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

Spring 2017

- 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 develop an appealing and professional-looking user interface in mobile applications. The course also focuses on learning server-side programming needed 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 (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 without impacting other components and existing frameworks.
- Developed a Proof of concept and a prototype for replacement of HYDRAsTOR's High Availability and Data Replication component using Open Source Software- 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 XlsxWriter 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.