

PRANJUL ARORA

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EDUCATION

Master of Science, Computer Engineering (Software Track)
Syracuse University, Syracuse, NY

GPA: 3.9/4.0

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
ITM University, Gurgaon, India

GPA: 7.76/10.0

May 2014

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages** : C++ (Sockets, Multithreading), C# .NET (WCF, WPF, Multithreading), Java, Swift-2/3/4, Shell scripting.
- **Web/ Mobile Development** : iOS, Android, XML, REST APT, JavaScript, HTML, J2EE- 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 analyzer 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 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 to- upload XML input files, display output; and a query mechanism to retrieve 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, Location services, broadcast receivers. Used Facebook API & Firebase for data storage and authentication.

TECHNICAL EXPERIENCE

Graduate Research Assistant, Syracuse University, NY

Oct 17 – Present

- Working towards an Education based recommendation system which includes the development of a mobile application, web application, NoSQL Database etc.

Graduate Teaching Assistant (Android Programming Course), Syracuse University, NY

Aug 17 – Present

- The objective of this course 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 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.

Start-Stop Automation Tool (Used- Python and 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.