

# PRANJUL ARORA

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## EDUCATION

Master of Science, Computer Engineering (Software Track)

GPA: 3.929/4.0

Syracuse University, Syracuse, NY

May 2018 (Expected)

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

- Graduate Teaching Assistant for Object Oriented design course (c++)- under **Prof. Jim Fawcett**
- Graduate Teaching Assistant for Android Programming course

Spring 2018

Fall 2017

Bachelor of Technology - Information Technology

First class with distinction

ITM University, Gurgaon, India

May 2014

## TECHNICAL SKILLS AND INTERESTS

- Programming Languages:** C++ (Sockets, Multithreading), C, C# .NET, Java, SQL, Shell scripting, HTML, Python
- Web/Mobile Development:** iOS (Swift-2/3/4), Android, Firebase, Angular 2, JavaScript, Servlets, JDBC, JSP, Django, HTML DOM, conda
- Security:** Secure SDLC, Source Code Review, System Security, Web Security (OWASP top 10), Android Architecture & Security, TCP/IP Protocol
- Tools:** Eclipse, NetBeans, Visual Studio, Android Studio, Xcode, GIT, JIRA, SVN, YUM, RPM, MySQL, IBM RAD, IBM Websphere

## RESEARCH EXPERIENCE

Graduate Research Assistant | Syracuse University, NY – under **Prof. Ying Lin**

Oct 17 – Present

- Developed education recommendation system that records user's behavioral information using NoSQL Database.
- Performed data analysis to recommend events based on user's current location, timestamps and visited topics.
- Developing web application in Django for data visualization hosted on AWS EC2 instance.

## TECHNICAL EXPERIENCE

Software Engineer Intern | Up2Code, NYC, NY

May 17 – July 17

- Technologies-** JavaScript, JSON, Swift 3, Firebase, Git, Objective-C, Google & Facebook API,.
- Developed application that provides users real-time information on their favorite restaurants and performed Unit and UI testing.
- Developed automated scripts running on the backend server to update ratings and perform maintenance activities.
- Facilitated users with Apple Maps to find restaurants and used geo-fencing to restrict users from rating a restaurant without visiting it.

Software Engineer | NEC Technologies India Limited, Noida, India

Dec 14 – July 16

**ClusterPro Replacement (HydraSTOR's Component- NEC Product)**

- Technologies-** Python, shell scripting, Git, JIRA, CentOS, Open Source Software- Pacemaker, Corosync, and DRBD.
- Gathered requirements from teams across organization to develop design for replacement of distributed grid management system.
- Developed Proof of concept and prototype for replacement using Pacemaker, Corosync, Distributed Replicated Block Device.

**Start-Stop Automation Tool (Used- Python, shell scripting, CentOS)**

- Developed a tool that measures HYDRAstor's start-stop performance and used XlsxWriter to create an excel sheet for results.
- Involved in the analysis of requirement specifications and technical aspects of the tool.

Software Developer Intern | Jabong.com, Gurgaon, India (Used- C#.NET , WCF, WPF, XML, Multithreading)

May 13 – July 13

- Developed a server monitoring tool that displays and reports the status of the services hosted on the Servers.
- Developed GUI based on WPF provide users with Tachometer representation for displaying Process activity.
- Presented tool to senior leads in R&D team which served as a prototype for the tool now being used in the organization.

## PROJECTS

VenYou – Android, iOS, and Web (Angular 2), Firebase

Nov 17

- Developed event organization application which suggests events based on the user's interest and host ratings managed on Firebase.
- Built core modules for user profile management, authentication using Google & Facebook API and Firebase data management.
- Integrated these modules with cloud services such as Paypal & Google wallet payment options, Chabot (api.ai).

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

May 17

- 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

Feb 17

- Developed a Key/Value in-memory database using unordered-map persisted to an XML file and an interactive query mechanism.
- Implemented template class to store Key/Value pairs with meta-data and child relationships with other values.

Test Harness - C#.NET, WCF, WPF, XML, Multithreading, App Domains

Dec 16

- Developed automation tool that is based on a client-server architecture to automate and ease integration testing.
- Implemented functionality to test multiple client's code concurrently and generate detailed test reports for clients.
- Developed WPF GUI to- upload XML input files, display output; and a query mechanism to retrieve records from the repository.

HealthCare@ICT- Java, JSP, Servlets, SQL, JavaScript, JQuery, Apache Tomcat

Dec 16

- Designed web app secured against injection attacks- SQL injection, XSS etc. and provided backend infrastructure support.
- Used sensors to collect blood pressure and heartbeat reading used by the backend to provide necessary prescription data.