Ashish Sirohi

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Computer Science graduate student at Arizona State University with 1.7 years of IT industry experience, interested in Web and Mobile development, seeking Software Development intern position starting Summer 2017.

Education

Master of Computer Science	Arizona State University	CGPA: 3.67/4.0	Expected May 2018
Bachelor of Technology, Computer Science	SRM University, India	CGPA: 3.6/4.0	May 2014

Technical Skill Set

- **Programming/Scripting Languages:** Python, Java, JavaScript, C, C++, jQuery
- **Databases:** My SQL, PostgreSQL, Sqlite, MongoDB
- **Web Framework:** Django, Flask
- **Tools:** Android Studio, Visual Studio, Eclipse, MATLAB, PyCharm, IntelliJ IDEA, Git, Hadoop, Spark
- **Certification:** Microsoft Specialist: Programming in HTML5 with JavaScript and CSS3
- **Operating Systems:** Windows, Ubuntu Linux
- **Relevant Course:** Algorithms & Data Structure, Mobile Computing, Distributed Databases, Multimedia & Web DB

Academic Projects

Extraction, Ranking & Indexing of Multimedia Features **[ASU, Fall 16]**

- Extracted different multimedia(video) features like histogram, sift vectors, motion vectors using MATLAB
- Performed subsequence search for similar frames on a multimedia database based on different similarity measures
- Generated similarity graph for video frames and found most significant frames using PageRank Algorithm
- Performed dimensionality reduction using PCA & LSH for fast query processing

Implementation of Network Science Research Tool **[ASU, Fall 16]**

- A web based tool to detect region-based faults in a network infrastructure and can be used to design networks which can withstand against region based faults caused by events like Nuclear attacks, Chemical Attacks, Earthquakes etc.
- Implemented in Python/Django framework with geospatial database(PostgreSQL) and JavaScript
- Google Maps integration with user interactive mode (design, edit and test network) and responsive UI
- Implemented generic and specified fault for testing designed network infrastructure

Android App for Tempe City Orbit Bus Service **[ASU, Fall 16]**

- Developed different UIs for users and drivers with login/signup feature
- Maintained a centralized database for bus full & change route status (controlled by driver)
- Exploited Google Maps API, Google Direction API & Google Places API to implement various features like nearest bus stop, orbit bus route to the destination, estimated time & distance, traffic status etc.

IP Reflector **[ASU, Spring 17]**

- Developed an IP reflector which detects all kinds of data packets sent to victim and reflects them back to the attacker
- Exploited Python-Scapy package for creating spoofed packets to fool the attacker

Work Experience

Assistant System Engineer at Tata Consultancy Services, India **[October 2014 – June 2016]**

- Automated the Data cleansing and migration process using Content Web Services and Java
- Designed the workflow map and developed custom module in OScript (OOP) to automate the Work flow process
- Won on the spot award for resolving a long due bug (browser compatibility) using JavaScript

Student Programmer at Arizona State University **[May 2017 - Present]**

- GeoDa Developer for ChainBuilder module at School of Geographical Sciences and Urban Planning (Arizona State University, Tempe)