

Ashish Sirohi

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Computer Science graduate student at Arizona State University with 2 years of IT industry experience, interested in Distributed Systems, Machine Learning, and Web Development, seeking full-time Software Developer position starting May 2018.

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, jQuery, PHP
- **Databases:** My SQL, PostgreSQL, SQLite, MongoDB
- **Web Frameworks:** Django, Laravel, Flask
- **Dev Tools:** Android Studio, Visual Studio, Eclipse, MATLAB, PyCharm, Git, Hadoop, Spark, RESTful APIs
- **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

ASU Class Notifier Web App

[ASU, Summer 17]

- User login/Signup implemented using Django Authentication system
- User can search for the course availability, if not available, they can add that course to their notification list
- A Python script runs periodically on the database (populated using [Django Web App](#)) to check the status of courses
- Multithreading is being used to check the status of multiple courses and send notifications in parallel

Network Science Research Tool Web App

[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

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

QA System for Academic Research Papers and Ranking using MLN

[ASU, Spring 17]

- Extracted knowledge from papers and expanded the knowledge using Knowledge Graph, DBpedia & Wordnet
- Created a common knowledge base which acted as ground truth for our MLN model
- Developed a MLN model which ran on the above knowledge base and ranked the papers based on learned weights

Work Experience

Assistant System Engineer at TCS Ltd., India

[October 2014 – June 2016]

- Automated the Data cleansing and migration process in Java using Content Web Services
- Designed the workflow map and developed custom module for a Web-based App to automate the Workflow 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]

- Web Development for conversion of existing workflow projects in to RESTful API services
- OAuth 2 implementation