# Ashish Sirohi

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Computer Science graduate student at Arizona State University with 1.7 years of IT industry experience, interested in Distributed Systems, Machine Learning and Web Development, seeking Software Developer position starting May 2018

## Education

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|---|---|---|---|
| **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** **[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 continuously 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

**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

**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

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

- Two instances of the app with login/signup feature and a centralized database shared by users and drivers
- Explored 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.

## Work Experience

**ASE (Web App Developer) at Tata Consultancy Services, 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

**Web App Developer at Arizona State University** **[May 2017 - Present]**

- Conversion for existing workflow projects in to RESTful API services
- Several new features developed for the Chain-builder App