

## Awantika Mahar

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### Summary

- Worked as front end and backend developer especially with Python on Web application and API development.
- Outstanding technologist and talented Software developer in **Python, Javascript, Django, MongoDB, AngularJS.**
- Good knowledge of **Linux/Unix shell** environment, **Dockers, Jenkins.**

### Education

#### Masters of Science, Computer Science

(3.4/4)

University of North Carolina at Greensboro, NC

(Aug 2016 - Dec 2017)

#### Bachelors in Engineering, Computer Science

Dr.D.Y.Patil Institute of Technology and Engineering, Pune, India

(Aug 2009 - July 2013)

### Technical Skills

Programming languages : Python, Java, C++, Javascript.  
Web Based Application : Django, AngularJS, HTML, CSS, JSON, XML, GIT, Jenkins, Docker Github, AWS.  
Databases : MySQL, Endeca, Mongo DB, SQL Server, Oracle  
Methodologies : Scrum, Agile, SDLC  
Tools : WordPress, Anaconda, PyCharm, Jupyter, Sublime, Atom, Jira, Heroku

### Research Experience

#### Graduate Research Assistant: Department of Computer Science, UNCG

(Feb 2017-April 2017)

#### Project: "Reproducibility of Science"

- Implementation, development of a Full Stack application using **Python, Django, MongoDB, AngularJS, CSS, JSON**
- Using data governance, data flows and data mapping processes for data management.
- Collective response & relationship of all information from three API about the keyword search is given to end user.
- Implemented storage of data in **MongoDB**, processing, manipulation, presentation, display using with Python Django view controller and **DRF**.

### Professional Experience

#### Organization: Cybage Software Private Limited, Pune, India

#### Role: Software Developer

(April 2015 – July 2016)

- Design and develop RESTFUL API's, data flow, documents, scripting, analyse system capabilities, program coding as per business logics, perform Test Driven Development, Unit Testing.
- Implemented the view control architecture in **Python-Django** framework, object oriented programming (**OOP**), SQL Server, storage services for web applications using **Django- SQLite** for database, CRUD operations, JWT
- Experience of working with relational databases like Oracle, SQLite, PostgreSQL, MySQL, and non-relational databases like MongoDB, **ORM** (Object Relational Mapper), **Query-set**, URL Mapping.
- Executed MySQL, MongoDB database queries from python using Python-MySQL connector to retrieve informations.
- Developed Views and Templates with Python and to create large scale website interface by Django's view controller and template, integrated front-end **Angular.js** application with server side logic through (**DRF**) based API.
- Experienced with Software Development Life Cycle, strong experience in Database designs, agile methodologies.
- Experience in Administration of **AWS** services Deployment and management through AWS cloud formation on **EC2** (Elastic compute cloud) and working on maintenance of amazon **S3** storage.
- Perform continuous integration on **Jenkins, GIT** and deployment of applications on **Docker**, good understanding of Docker image, build Complete Toolset of from a Docker Captain, creating a 3-Node **Swarm** Cluster(CI/CD).

#### Role: UI developer

(Aug 2013 – March 2015)

- Worked as Visual designer, interaction designer and Front End developer using JavaScript, AngularJS, HTML, CSS.
- Incorporated data normalization techniques with User Defined Functions (UDF) to ensure memory efficient data storage, advantageously utilize UDF data caching for frequent accessed tables, minimize normalization overhead.
- Created user friendly F.E, Single Page Applications (**SPA**), Interactive App Driven forms with complex validation rules
- Experience in, developing User Interface (UI) Rich Web Applications and Web Service using UI Technologies like JavaScript, AngularJS, **Bootstrap, HTML, CSS**, Media Queries, user acceptance test, stress testing with J-Meter.

### Academic Project

#### Machine Learning Models and Algorithms for Data Classification.

- Clear understanding of Clustering, Classification Algorithms, Modeling, Hadoop, MapReduce, Cloudera.
- Deep understanding of Big Data with supervised learning models and algorithms, setting of single node Hadoop Distributed File System, using Java for MapReduce Programming.

#### Application of Cloud based services

- Leveraged AWS cloud services such as EC2, S3 for data storage and to build the application.
- Executed email services in SES, route53 by triggering the lambda function, worked in EMR.