**Michael Allen**

‬‬‬

**Michael.Allen17@outlook.com**

**Summary:**

* More than 5 years of experience as a Full Stack Python Developer in Web Development with proficiency in Analysis, Design and Testing Enterprise applications using **Python, Django framework, Django Rest Framework, Flask** and front-end technologies like **HTML5**, **CSS3**, **JavaScript**, **Bootstrap**, **jQuery** and **Angular**.
* Experienced in developing Web-Applications implementing Model View Template architecture using **Python** and **Django** web application framework.
* Experienced in **SQLAlchemy** and **Django ORM** to interact with application data from databases.
* Experienced in developing rest api using **Flask** and **Django Rest Framework** to connect to the front-end
* Experienced in using Angular **7** features like **Template Driven Forms, Reactive Forms, Pipes, Directives, Components, Custom Directive, Dependency Injection, Routing, Template, Data binding** and **Services**.
* Experienced in object-oriented programming (**OOP**) concepts using **Python**.
* Implemented different python libraries including **BeautifulSoup**, **Numpy**, **Scipy**, **Matplotlib**, **Pandas**, **Scikit-learn** and requests to work with different types of data
* Experienced in implementation of Python Best Practices (**PEP-8**) using **autopep8** to make code more organized and readable
* Experienced in Unit Test with python **Unittest framework** and **tested the django application.**
* Experienced in web scraping using **BeautifulSoup4**, **lxml** and **html parser**
* Experienced of working with relational databases like **Oracle, SQLite, PostgreSQL, MySQL** and **non-relational databases** like **MongoDB**
* Build SQL queries for performing various **CRUD** operations like create, update, read and delete data
* Experienced in Amazon Web Services (**AWS**) and its **Services EC2, VPC, Lambda, SNS, SQS, RDS, EBS, Auto scaling, load balancing, IAM, AMI, S3 and** experienced in deploying Django Application in AWS using **Apache server**
* Experienced in **agile (Scrum)** and **waterfall** methodologies, continuous integration / continuous deployment in **Jenkins and** version control systems like **Git, GitHub** and workflow management software **Jira**.

**Technical Skills:**

|  |  |
| --- | --- |
| Programming languages | Python, JavaScript, SQL, Java, Typescript |
| Databases | MySQL, Oracle, PostgreSQL, MongoDB, SQLite |
| Web Development | REST, SOAP, JSON, HTML5, CSS, Bootstrap, JQuery |
| Frameworks | Django, Flask, Angular |
| Libraries | BeautifulSoup, Requests, re, Pymongo, Numpy, Scipy, Matplotlib, Unittest, Pytest, Collections, Pandas, JQuery, Boto3, SQLAlchemy |
| Amazon Web Services (AWS) | EC2, EBS, VPC, RDS, Lambda Functions, Bitnami, IAM, AMI, S3, Auto Scaling, Security Groups, Elastic Beanstalk |
| Tools | Pycharm, Microsoft Visual Code, Eclipse, Atom, NetBeans IDE, JIRA, MySQL WorkBench, Git,Postman, Compass |

**Professional Experience:**

**Bob’s Discount Furniture- Manchester, CT                                                                                                        July 2018 - Present**

**Role: Python, Django, Angular Developer**

**Description:** Bob’s Discount Furniture is one of the fastest growing furniture retailers in the country.  Bob’s Discount Furniture provides a wide variety of quality furnishings-including living room furniture, bedroom furniture, dining room furniture, mattresses and home accents. Senior Management decided to upgrade their existing system with the cutting edge technologies along with the introduction of new modules to increase productivity and reduce the overall manual labor. I worked on inventory management system which has the features such as product management, order management, reporting and notifications. As part of the team, I was responsible for designing, writing and unit testing code for various modules such as product management, order management and notifications using Django and Django Rest Framework. Along these, I also worked on the development of the templates and components to connect those back-end components with UI using Angular. I was also responsible for the integration of the new features such as automated returns, shipment cost and route calculation etc and in building reusable code and libraries for future use.

**Responsibilities**:

* Involved in the various stages of **SDLC** including Requirement gathering, Designing, Coding, Testing, Implementation and Maintenance
* Created **Restful API** using **Django Rest Framework** for user management such as creating new user, generating, and obtaining authentication token
* Created and managed the admin customization by extending the user models in **Django Rest Framework**.
* Used **mySQL database** for the **CRUD** operations which is performed by **REST APIs**
* Used Django’s built-in **authentication classes** and **permission classes** for the Login Authentication
* Designed and developed the login portal using Angular framework along with **HTML5, CSS3, Bootstrap4, Font Awesome** and **Typescript.**
* Used **Angular Services** to consume the **Rest API** and retrieve data from database and **Angular Pipes** to filter the data to display in the view
* Utilized core Angular features such as **HTTP, Data binding, Forms, Services, Components and Dependency Injection**
* Implemented **Angular Routing** to navigate between different components of the project
* Implemented authentication with **JSON Web Token (JWT)** by storing JWTs to user’s **local storage** and checking JWTs in requests headers for each data API call and removing the JWTs from the local storage when logging out
* Used **Jira** to track the progress of the whole project
* Wrote unit test cases using Python **Unittest** and **pytest**
* Maintained the Version and Backups of the source using **GitHub**

**Environment**: **Python, Django, Django Rest Framework, Angular, Typescripts, HTML5, CSS3, JQuery, Bootstrap, MySQL, Git, Jira**

**Hartford Healthcare- Rocky Hill, CT                                                                                                    November 2016 – June 2018**

**Role: Python Developer**

**Description:** Hartford HealthCare is Connecticut’s most comprehensive healthcare network. Hartford HealthCare offers the highest standards of care for cancer, heart and vascular services, neuroscience, orthopedics and urology. The project was to develop a fully functional system including dashboard functionalities as Appointment Scheduling, Automated Appointment Reminders, Electronic Claims, Patient Referral Tracking and Reporting. As a Python developer, I worked on appointment scheduling, that allows patients to schedule and manage the appointment to visit the doctor. I was responsible for developing the Remainders, Automatic updates and Advance Reporting features. Reminders were sent to the patients about the appointment date time, doctor portfolio, insurance company, and things to follow/bring during visit. The change request in the appointment would be automatically updated across the platform. Important patient data such as demographics and insurance would be accessible from within the application.

**Responsibilities:**

* Designed and developed web applications in Django Framework’s Model View Template (**MVT**) architecture
* Used python **decorators**, **dictionary**, **list comprehensions**, **generator**, **JSON**, **pandas**, **matplotlib** and **Numpy** for building python functions for processing data
* Worked on web scraping using **BeautifulSoup** library and **json** documents using python built-in json package
* Implemented methods to Create, Retrieve, Update, Delete (**CRUD**) in active record
* Implemented Django Object Relational Mapper (**ORM**) and used **Queryset** to retrieve data from database tables
* Performed unit testing by writing test cases using python **Unit Test** module
* Built **Restful API** service using **Django Rest Framework and** used **Django Rest Framework** built-in **Token based Authentication** for authentication
* Used Django URL patterns to configure the routing for the **Web Application** and **Rest Api**
* Used **MongoDB** database and migrated Django’s default databases **SQLite** to **MongoDB**
* Performed various **NoSQL** queries on **MongoDB** in python using **pymongo-MongoClient**
* Wrote Python modules to load data from MySQL source database
* Designed and developed the UI of the website using **HTML 5, CSS, Bootstrap,** and **Javascript**
* Collaborated with front-end team, data team to design, develop, integrate, test, document and implement the project
* Involved in daily Scrum meetings, followed the agile methodology and used **Jira** software to track and manage the project
* Used **Git** source control for simultaneous development

**Environment**: **Python, Django, Django Rest Framework, MongoDB, SQLite, JavaScript, HTML5, CSS3, JQuery, Bootstrap, Git, Jira**

**Cigna- Bloomfield, CT                                                                                                             May 2015- Nov 2016**

**Role: Python Developer**

**Description**: Cigna is a global health service company with 95 million customers around the world. Cigna offers Medicare and Medicaid products and health, life and accident insurance coverages primarily to individuals in the U.S. and selected international markets. Its insurance subsidiaries are major providers of medical, dental, disability, life and accident insurance and related products and services. The project was to develop the fully functional directory to find the affiliated hospitals and doctors. I mostly worked on backend making Restful API using Django Rest Framework and Flask. I also worked on the front-end using Angular as well as deployment in AWS.

**Responsibilities:**

* Worked on **Agile** Methodologies to manage full life-cycle development of the project
* Developed web-based applications using **Python, Django, CSS, HTML, Bootstrap, JavaScript and jQuery**
* Developed full-stack web applications using **Flask**, **Python, Angular, MySQL**, **HTML5, CSS3 and JavaScript**
* Worked in the backend using **Python Django Framework** to develop the application
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface
* Built **RESTful APIs** using **Python**, **Django**, **Django Rest Framework**
* Designed and maintained databases using Python and developed RESTful Web Service using **Flask, SQLAlchemy**and **PostgreSQL**
* Wrote Python script for various **MySQL** database queries using **Python-MySQL connector**
* Worked on front-end using Angular and implemented **Angula**r features such as **services, components, Filters, Directive, Reactive Forms**
* Worked on various graphs using **Python pandas, scikit-learn** and **matplotlib** library
* Worked on Python scripts to parse **csv** files and **json** data to load to the database
* Used Python library **BeautifulSoup** for **web scraping** to extract data from the website
* Worked with deployment team and deployed the **Django** applications on AWS using Elastic Beanstalk
* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer, VPC, Auto scaling, Security groups, IAM roles**
* Build servers in AWS, importing volumes, launching **EC2, RDS**, creating **security groups, auto scaling, load balancers** in the defined virtual private connection
* Created **S3 buckets** in the AWS environment to store static files and worked on Python package **boto3** for AWS
* Used **AWS lambda Function** to run code without managing server to run code by S3 and SNS
* Used **Git** as the version control and **JIRA** to assign, track the stories and tasks

**Environment: Python, Django, Flask, MySQL, AWS, HTML, CSS, JavaScript, Angular, Typescript, Bootstrap, PyCharm, GIT**

**Johnson and Johnson- Bridgewater, NJ                                                                             May 2014-April2015**

**Role: Django Developer**

**Description**: Johnson and Johnson is the world’s largest and most broadly based healthcare company who strive to improve access and affordability, create healthier communities, and put a healthy mind, body and environment within reach of everyone. The company operates through three segments: Consumer, Pharmaceutical and medical devices. The project was to create the ‘Career’ module. I worked in a team to follow the Scrum life cycle practices, but I also worked independently designing, developing, and testing application software programs.

**Responsibilities:**

* Designed and developed the product page using **Python Django Framework** and followed the **Django MVT architecture**
* Built **RESTful APIs** using **Python**, **Django**, **Django Rest Framework** and tested the **Restful API** using Postman tools
* Implemented Django Object Relational Mapper (**ORM**) and used **Queryset** to retrieve data from database tables
* Performed unit testing by writing test cases using python **Unit Test** module
* Worked with various python libraries **Requests**, **Numpy**, **Matplotlib**, **BeautifulSoup**, S**cikit-learn** Pandas to visualization
* Created python scripts to work on **json** and **csv** files and stored the data in the database
* Extracted data from the website using **BeautifulSoup** library and stored the data in the json and csv files
* Wrote Python script for various **MySQL** database queries using **Python-MySQLconnector**
* Designed and developed the front-end of the website using **HTML, CSS, Bootstrap, JQuery** and **Javascript**
* Used Jira for tracking, updating the project issues and issue tracking
* Followed the agile development methodology to develop the application
* Maintained the version control using **GIT** and deployed the project on **GitHub**

**Environment: Python, Django, MySQL, HTML, CSS, JavaScript, Bootstrap, PyCharm, GIT**