**PROFESSIONAL SUMMARY**

* Python Full Stack Developer with 4+ years of experience in Web Development and involved in all phases of **Software Development Life Cycle** such as gathering, analysis, design, and deployment.
* Utilized **Object Oriented Programming** in Python using **List, Tuple, Generators, Collections, list comprehension,** and **dictionary comprehension**.
* Experienced in Web Development technologies in **Python**, **Django**, **Flask**, **Angular 6+**, **JavaScript** (also **TypeScript**), **Node**.js, **Express.js**, **HTML5**, **CSS**
* Practical knowledge of creating **microservices** architecture in **Django**, **Flask** incorporating **RESTful** framework.
* Experience using web scraping technologies such as **BeautifulSoup4** to analyze **HTML** webpage contents.
* Experienced in handling **CORS** mechanism to give access to multiple server hosts.
* Implemented authentication schemes in both frontend and backend using **Django JSON Web Token (JWT) Authentication, Session Authentication, sessions, cookies,** and **local storage.**
* Experienced in developing web applications following **Model View Template (MVT)** architecture using server-side applications in **Django**.
* Experienced in designing and developing **RESTful API** to perform **CRUD** operations to enable data interaction with the database.
* Experienced in writing unit tests for **Python** applications using **PyUnit** to check validity of results.
* Created **microservices** in **RESTful** using **Django/Flask** and **Node.js** using **AWS EC2, S3 Storage,** and **RDS.**
* Experience in Database design and configuration using **SQL** queries, DB shells, and visual tools.
* Proficient with databases such as **MySQL** and **MongoDB** using **Object Relational Mapping (ORM)** integrations with **PyMongo, SQLAlchemy, Django ORM,** and **mongoose**.
* Utilized **Object Relational Mapping (ORM)** in databases such as **Django ORM, PyMongo, Node/Express/ mongoose** to perform **CRUD** operations and establish data communication**.**
* Incorporated **Single Page Application (SPA)** with **Angular** using **Routing**, **Component**, **Pipes**, and **Services**.
* Utilized **Angular Event-Emitter** to notify parent component of any change occurred in child component.
* Experienced with **Angular CLI** for creating components, Services, pipes, and Directives and bash script to simplify Angular CLI by incorporating user shell interaction.
* Experienced deploying **Django** and **Express** applications in **AWS EC2** using **Apache** and **Nginx** and **load balancing** using **Apache** and **Nginx**.
* Experienced with writing **bash script** to configure application environment, deploy, and install applications.
* Well-versed in **Linux** shell commands.
* Proficient with version control software **Git** commit, merge, and branch, and workflow management software **Jira**.
* Experienced in **Waterfall** and **Agile** (**SCRUM**) production methodology.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Programming Languages** | **Python, Java, JavaScript** |
| **Backend** | **Django, Flask, Express.js, Node.js, Nginx, Apache, RabbitMQ, Bash** |
| **Frontend:** | **Angular 6+, HTML, CSS, TypeScript, jQuery/Ajax** |
| **Databases** | **MySQL, MongoDB, Cassandra, PostgreSQL, Oracle, MS SQL** |
| **AWS** | **RDS, S3, EC2, Lambda, SNS, SES** |
| **Tools** | **Git, VSCode, MySQL Workbench, FileZilla** |
| **OS** | **Linux, Windows** |

**PROFESSIONAL EXPERIENCE**

**Colgate-Palmolive**, Piscataway, NJ **Sep 2019 - Present**

**Python-Django Developer | Angular Developer**

**Description**: Colgate-Palmolive focuses on the production, distribution and provision of household, health care, and personal care products. The company wanted to revamp their "Brands and Market" module by integrating with new and enhanced components. I worked with a team of 6 people in designing and enhancing template views to incorporate more household and healthcare products. I achieved this by using existing Django API to filter product search results with existing models to reflect the changes by consuming data using Angular Services with HttpClient to subscribe to Django RESTful endpoint to update and display data in the user interface. My responsibility includes rendering detailed views of products and modifying existing algorithms to incorporate more search query categories. I used Django framework to handle product detail requests and MySQL for database model management along with AWS EC2 and S3 bucket storage.

**Responsibilities**

* Involved in all phases of SDLCincluding gathering requirements, designing, analyzing, and testing customer specifications, development, implementation, and deployment of applications.
* Developed websites using **Django** framework with **MySQL** database and **Django ORM models** to perform **CRUD** operations.
* Created temporary **RESTful API** to use as prototype for **Angular** frontend testing using **HttpClient** module and subscribing to observables to retrieve and store data in **Angular Component**.
* Utilized **JWT Authentication** to authorize user access to newly created **RESTful API**.
* Extended and updated existing **Django model** attributes featuring **Django ORM** to perform **CRUD** operations.
* Developed **RESTful APIs** using **Django REST Framework**, tested **RESTful API** using **Postman** tools, and integrated **Angular** with backend **RESTful APIs** using Angular **HttpClient**.
* Designed and developed Angular components using **TypeScript,** making API calls and subscribing data using **Services** and **Observables**.
* Contributed to existing **Angular** components and created new angular **service** to make **HttpClient** requests.
* Developed databases and tables in MySQL using Workbench client to design, verify and test validity of data processed.
* Designed **Django** model-driven **form** and **serializers** to send and receive **HTTP** and **RESTful API** requests.
* Designed fading text **animations** using **Angular** animation **trigger** to show user interaction with the interface.
* Contributed to existing Angular components by creating new angular service to make **HttpClient** requests to **RESTful** Django backend.
* Implemented security and user types with Django Authentication by customizing the **Abstract User Class**
* Configured **Apache** and **security groups** on **AWS EC2** instance.
* Set up automatic deployment of applications and configuring **Apache** file using **bash script** file.

**Technologies Used –** Django, AWS EC2, Apache, HTML, CSS, Angular, TypeScript, JavaScript, VSCode, Git, Linux, MySQL

**ION Computer Systems,** Woodbury, NY **Aug** **2018 - Aug 2019**

**Python-Django | Angular Developer**

**Description**: ION Computer Systems designs computing products to meet the technology requirements of the rapidly changing ecosystem of today. ION specializes in helping customers to design, build and test servers that meet their specific requirements. ION application consists of modules such as server products, server configuration, server support and shopping cart. I was involved in the development of products page module to update existing server details and user configuration options for cloud and storage servers. As one of my tasks, I worked on enhancing the shopping cart transaction page and process email notifications to clients using Django and Jinja. I utilized Angular Services with HttpClient to consume observable data from Django RESTful endpoint to display and update the user interface with new server configurations. Developed using Django RESTful services, MySQL and Angular as frontend framework. Deployed application using AWS EC2 and RDS with Apache.

**Responsibilities**

* Involved in all phases of SDLCincluding gathering requirements, designing, analyzing, and testing customer specifications, development, implementation, and deployment of applications.
* Designed Django models from existing data models to implement new application software features using **MySQL** on **AWS RDS** and **EC2**.
* Created and designed **RESTful API** services in **Django** to incorporate and update new features for **CRUD**.
* Tested **HTTP** request protocols using **Postman** to validate response objects and existences of **API** resources.
* Utilized **JWT Authentication** access and refresh tokensto authorize user access to **RESTful API** endpoints.
* Utilized **session** management and browser **local storage** to track cart items.
* Implemented **decorators** using wrapper functions to ensure that only authorized users place orders.
* Updated **Angular components** to create new angular **services** to make **HttpClient** request to **RESTful** **API**.
* Wrote **boto3** scripts in **Python** to parse files and store images to **S3 bucket**.
* Utilized **observables** to **subscribe** and **unsubscribe** data to update component in **Angular Lifecycle Hooks**.
* Created **TypeScript** function calls to handle angular directives for **ngClick**, **ngChange**, and **ngModel**.
* Utilized **two-way binding** to update in real-time the component class data variable.
* Configured **NGINX** for **Angular** deployment and **Apache2** for **Django** deployment using **bash script**.
* Wrote dynamic **HTML** web pages within **Django** using **Django Template Language (Jinja2)**.
* Wrote **Unit Test** with **PyUnit** to test **CRUD** operations on the Django RESTful endpoints.
* Set up automatic deployment of applications and configuring **Apache** file using **bash script** file.

**Technologies Used –** Django, AWS EC2 | RDS, Apache, HTML, CSS, Angular, TypeScript, JavaScript, VSCode, Git, Linux, MongoDB, MySQL, Jinja.

**Kalven Technologies,** Lake Success, NY **Jul 2016 – Jul 2018**

**Python-Django Developer**

**Description**: Kalven was started with an objective of assisting clients in achieving mission critical business objectives to deliver value to their customers, business value chain partners. The project was for the medical center portal to manage patient information. In the patient module, users can view their appointments and availability of doctors. As a member of the development team, I developed and updated the HealthCare Portal and created management appointments with patients, create prescriptions, and create patient reports. I created RESTful services using Django RESTful framework in combination with MySQL using Object Relational Mapping.

**Responsibilities**

* Involved in all phases of SDLCincluding gathering requirements, designing, analyzing, and testing customer specifications, development, implementation, and deployment of applications.
* Created **Python virtualenv** to isolate package environment from the local environment to avoid dependency conflicts.
* Created and updated **Django MySQL** models using Object Relational Mapping.
* Created **RESTful API** endpoints in **Django** to perform **CRUD** operations.
* Utilized **JWT Authentication** and cookies in **Django t**o authorize user access to **RESTful API** endpoint.
* Created **Django routes** and **views** with **regular expression**, and used **serializers** to send and receive **HTTP** request data.
* Integrated lazy loading in **Django** using **pagination** to generate dynamic content using URL query parameter and **values list** in **Django models** to query for necessary fields.
* Wrote **HTML** pages within **Django** to generate dynamic DOM elements carrying server data.
* Configured **AWS EC2** instance and open firewall for **security groups** to expose ports publicly to other servers.
* Tested Django and Express **RESTful API** using **Postman** and tested **MySQL** data integrity with **MySQL Workbench**.
* Configured **Apache** and **security groups** on **AWS EC2** instance.
* Set up automatic deployment of **Django** applications and configured **Apache** file all using **bash script** file.

**Technologies Used –** Django, Jinja, AWS EC2, HTML, JavaScript, VSCode, Git, Linux, Apache

**Softincubator,** New Hyde Park, NY **Jul** **2015 - Jun 2016**

**Junior Python-Django Developer**

**Description**: Softincubator’s aim is to provide insights on technology, process, strategies, market insights and effective program management across the enterprise. Softincubator required a new system to get updates on real estate prices and notify clients regarding the price rise and fall. I was working on the Realty Bargain module and was involved in the process of retrieving most recent real estate updates, sending email notifications to inform clients of the price change on the estate, and returning house listings with close range price and foreclosure listing to clients. The application allowed clients to view and manage estate requests. I involved in the development of the user interface to interact with RESTful APIs designed in Django to handle user requests.

**Responsibilities**

* Involved in all phases of SDLCincluding gathering requirements, designing, analyzing, and testing customer specifications, development, implementation, and deployment of applications.
* Designed server-side application and client interface with **Django, Jinja, JQuery,** and **Javascript.**
* Collaborated with developers to handle **Django** application deployment on **AWS**.
* Created **Python virtualenv** to isolate package environment from the local environment to avoid dependency conflicts.
* Created and modified **RESTful** endpoints in **Django** to incorporate and update new features for **CRUD** operations.
* Created dynamic **HTML** pages within **Django** and **Flask** with **Jinja2** and using **jQuery** to get **DOM** elements and perform **AJAX** http requests.
* Created **Django routes** and **views** with **regular expression** and used **serializers** to send and receive **HTTP** request data.
* Designed and updated **Django** models from existing **MySQL** models using **Django Object Relational Mapping**
* Utilized **Django Authentication** using abstract user model and **JWT Authentication** with access and refresh tokens.
* Coded **Unit Tests** with **PyUnit** to test **CRUD** operations on the Django RESTful endpoints.
* Created **boto3** scripts in **Python** to launch **AWS EC2** instance and creating an **EC2** instance from an image.
* Deployed **Django RESTful** application in **AWS EC2** with **Apache** and modified configuration file to identify the location of the application.

**Technologies Used –** Django, AWS EC2, Apache, HTML, JavaScript, VSCode, Git, MySQL, Linux

**EDUCATION**

**Stony Brook University, NY**

***Bachelor of Science in*** *Computer Science*