Hasana Chaudry
732-589-9770
hasanachaudry@gmail.com

SUMMARY:

- 5+ years of experience as a full stack Developer with proficiency in analysis, design, and testing enterprise applications using **Python** and **Django**.
- Proficient in front-end development with experience using **Python 2/3, Django**, **AJAX**, **HTML5**, **CSS3**, **XML**, **JavaScript**, **Bootstrap**, **jQuery**, **Angular**, and **Node.js**.
- Experienced in working with Angular concepts like Directives, Components, Router, Data Binding, Reactive Forms, Form Validations, Pipes, and Services.
- Experience working with Django templates, views, forms, authentication, and models.
- Experienced in the application of **regular expressions** to validate input fields and URLs.
- Experienced with the use of popular **Python libraries** such as **Requests**, **Scrapy**, **NumPy**, **SciPy**, **Matplotlib**, **Pandas, re, BeautifulSoup, SQLAlchemy,** and **TkInter.**
- Skilled in the creation of projects using the **Django** and **Angular** framework.
- Skilled in using **Angular 2+** to create responsive web applications, with extensible code.
- Experience with the use of **Bootstrap** to create user-friendly web pages with visual impact.
- Strong foundation in **OOP principles**, and writing extensible, reusable, and maintainable code.
- Extensive experience using and creating **REST API**'s that provide CRUD operations and other server-side functionality, such as user authentication as well as **SOAP API**'s for security benefits.
- Experience with creating, querying and maintaining databases with many **DBMS** such as **MySQL**, **MongoDB**, **SQLite**, **PostgreSQL**, **MS SQL**, and **Oracle**.
- Experience working with web servers such as **Node.js**, **Apache** and **Xampp** to deploy projects.
- Experience writing unit tests for applications using **Karma**, **Angular-Mocks**, and **Django.test** using **UnitTest**. Experience using different version control systems like GitHub, Bitbucket.
- Experience in effective implementation of Django object-relational mapping (ORM) and object document mapping (ODM).
- Experience with the **AGILE** software development process, as well as participating in scrum calls.
- Experience in working and developing in segregated environments with **virtualenv**.
- Extensive work in deployment of different modules on IIS, Apache, Heroku, AWS Server.
- Experienced with Django and Flask REST API frameworks to create production quality APIs.

TECHNICAL SKILLS:

Programming Languages	Python, Java, JavaScript, C, C++, SQL, TypeScript, HTML5, C#, CSS3
Databases	Oracle SQL, Microsoft SQL, PostgreSQL, MySQL, MongoDB, SQLite
Web Developments	Bootstrap, DOM, HTML5, CSS3, REST, SOAP, Ajax, JSON
Frameworks	Django, Flask, ExpressJS, AngularJS, Angular, jQuery, Karma**,** NodeJS, ExpressJS
Libraries	Pandas, SciPy, Pillow, NumPy, Matplotlib, Sqlalchemy, Pymongo, Cx_oracle, Boto3, Unittest, Zeep, Collections
Tools	MATLAB, Eclipse, PyCharm, Visual Studio Code, Postman, Git, GitHub, Compass, MySQL Workbench
Servers	Windows, Linux, Apache, Xampp, Redis, NodeJS, HTTP, AWS

PROFESSIONAL EXPERIENCE

SummitWorks Technologies – Pittsford, NY   **April 2018 - Present**

Role: Full Stack Developer

Discover Financial Services, Inc is a financial services company based out of North America. The company owns Discover Bank which offers its clients financial services including credit cards, loans, checking and saving accounts. Discover Card is the third largest credit card brand in the United States with nearly 50 million cardholders nationwide. I worked with a team of software developers on Discover Card's mobile app which allows its users to navigate between their various credit cards accounts with Discover as well as view their statements, make online payments, view their credit card history, order card replacements and request for additional loans. During my time on this internal project, I focused on increasing the efficiency of the Discover mobile app user interface and ensuring that clients were able to access their data and credit cards with ease on the go. I achieved this by using technologies including Angular, Bootstrap, CSS3 and HTML5.

Responsibilities:

- Involved in the all phases of Software Development Life Cycle like Requirements gathering, Analysis, Design and implementation of the project.
- Used **Python Django** Framework to design and develop website using **MVC- Model View Controller** architecture.
- Developed professional web-based UI using **HTML5, CSS3, JavaScript, jQuery, AJAX.**
- Involved in creating UML flow diagram and EER for database design.
- Used **Angular reactive forms** and **validations** to validate the user input.
- Used **Bootstrap** and **CSS3** to build **responsive-websites** for different devices like mobile, desktop, laptop, and others.
- Developed Authentication and Security using **Python Django**'s built-in authentication.
- Used **Angular** built-in and custom **services** to consume the **RESTful APIs** in the front-end.
- Deploy the application through **GitHub** for the version control. Created **MySQL** databases, tables and views.
- Experience in creating initial website prototype from Django skeleton and building out Views, Templates using CSS for whole site following Django MVT architecture.
- Adopted **ng-template** and **ng-model** to create the form for user-friendly pop-ups.
- Used **Django Session** for better performance of the web page. Performed **Django** model design pattern and **ORM** for Back-end server.
- Wrote queries and procedures on tables in various created databases.
- Created the module transforming the web page to pdf file using **Python** for clients to easily retrieve invoices and documents.
- Utilized **Angular routing modules** to create single page applications and implemented lazy load.
- Used **NumPy** to analyze customer preference and **Pandas** and **Matplotlib** to visualize the result.
- Created controllers, factories, services and custom directives using AJAX with AngularJS.
- Deployed the platform built using Django to AWS. Generated Ec2 and connected to MySQL database using RDS.
- Worked with tools such as Pytest and Unit test for unit testing the python functions and Postman to test Rest API's. Used **Jira** to manage workflow and track progress.

Environment: Django, Python, Angular, TypeScript, SQLite, Express, CSS3, HTML5, PyCharm, NumPy, Pillow, PayPal, Git, MySQL Workbench, Pandas, Matplotlib, GitHub, AJAX, jQuery, Bootstrap, AWS, Jira, REST API, DRF- Django Rest Framework, Postman, Atom, PyCharm, Git, Git-Bash, Sublime Text

Pennington Law Group – South Orange, NJ   **October 2017 - March 2018**

Role: Python Developer

The Pennington Law Group is a firm of experienced attorneys that practice civil and criminal law based out of South Orange, New Jersey. I was hired as part of a team to revamp the firm's website to allow for additional functionalities, easy to use admin interfaces, and client base management. My responsibilities included developing a user-friendly website that allowed the clients and attorneys to communicate and easily access the websites contents. I stored and updated client records and referrals in databases and generated invoices based on attorney rates and hourly input. The technologies used in developing this project included the Django framework, MongoDB databases, and Python scripts.

Responsibilities:

- Involved in all phases of SDLC including Requirement Gathering, Design, Analysis and Testing of customer specifications, Development, and Deployment of the Application.
- Responsible for developing the **back-end** of the mobile website by gathering requirements from Business Analyst and turning those into suitable code structures.
- Used **Python Django** Framework to design and develop mobile app using **MVC- Model View Controller** architecture to avoid handling logic and presentation part together.
- Developed professional web-based UI using **HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX.**
- Used **Bootstrap** and **CSS3** to build **responsive-websites** for different devices.
- Used Selenium for testing. Assisted in Node.js Server deployment with Heroku.
- Used NumPy to analyze customer preference and Pandas and Matplotlib to visualize the result for administrative use.
- Assisted for the prediction of customer preference using Tensorflow.
- Used **Bootstrap** to create responsive and interactive views.
- Developed **Restful API's** for all the functionalities implemented in the project using Class based Views in **Python Django**. Created **MySQL** databases, tables and views.
- Used virtualenv and pip to work in segregated environments for specific project requirements.
- Worked in a fast-paced environment on multiple projects and teams.
- Developed Authentication and Security using **Python Django**'s built-in authentication.
- Responsible for debugging and troubleshooting embedded applications to improve performance and identify and fix issues.
- Deploy the application through **GitHub** for the version control. Tested the application using PyTest, Unittest, and Postman.

Environment: Python-Django, SQL, SQLite, MySQL, Restful-API, Bootstrap, HTML5, JavaScript, jQuery, AJAX, CSS3, Postman, Atom, PyCharm, Sublime Text

Geisinger – Danville, PA   **January 2017 - September 2017**

Role: Python Developer

Geisinger Health System is a research and practice medical center headquartered in Central Pennsylvania. Geisinger Center for Health Research is a $21 million research facility on the GHS Danville campus. This facility sponsors academic and medical research on a large scale with access to its large database of electronic health records. I worked as part of an internal software team on this facility that used MRI data from patients' records provided by Geisinger's Fornwalt lab to develop an algorithm that mapped out the blood flow within veins and arteries, the workings of both ventricles, and a three-dimensional volumetric representation of the human heart. A customized version of the minimum spanning tree was implemented in this program to calculate the various focus points on the volumetric image. This algorithm was intended to be used by surgeons in real time in the OR and in general patient care to accurately diagnose diseases, pathogens, and heart conditions.

Responsibilities:

- Involved in the all phases of Software Development Life Cycle like Requirements gathering, Analysis, Design and implementation of the project.
- Performed **data analysis** on MRI data from Geisinger Hospital's Fornwalt Lab.
- Classifying and organizing the obtained MRI data in implementable **MySQL** databases.
- Created a Graphical User Interface in **MATLAB** for plotting the MRI data points.
- Creating models and routes in **Django** to implement certain data sets.
- Developing an **algorithm** that used skeletal representations of the heart to segment its ventricles.
- Developed and implemented python design patterns including the Factory and Singleton patterns.
- Improved time efficiency and volumetric accuracy of the code to precisely map the blood flow by comparing the **complexity** of versions of the program in **Python**.
- Used **HTML5**, **CSS3**, **and Bootstrap** for creating responsive and interactive views.
- Develop the GUI to allow for customized inputs using **Django** and **Python** libraries.
- Implemented **Django forms** in the **GUI** to allow for input values from medical professionals.
- Developed **Restful API's** for all the functionalities implemented in the project using Class based Views in **Python Django**. Used **Django's** native **testing framework** to implement unit testing.
- Experience in deployment of web application using AWS Elastic Beanstalk.
- Used **Jira** and **Git** source control to manage workflow and track project development.

Environment: Python, Angular, Django, SQLite, PyCharm, MySQL Workbench, MATLAB, HTML5, MongoDB, Jira, Git, AWS, REST API, DRF- Django Rest Framework, Postman, Atom, PyCharm, Git-Bash, Sublime Text, Bootstrap, Express, PyCharm

A1 Enterprise – Manhattan, NY   **May 2015 - December 2016**

Role: Full Stack Developer

A1 Enterprise is shipping and handling company that manufactures, supplies, and delivers clothing to retailers such as Kohls, Macy's, TJ Maxx, Target, etc. The company has multiple shipping and storing warehouses along North-Eastern ports in the United States and along ports in Southeast Asian countries. I worked with an internal team employed by A1 Enterprise to develop an inventory software that kept track of the inventory being shipped, the inventory's worth, updated location, recipient, and manufacturer. We developed a clean user interface for the inventory portal using AngularJS and Bootstrap as well as handled the backend by creating databases in MongoDB that were accessed through Node.js. The software had multiple authenticated user logins that allowed partners to update the status of the inventory that was being handled.

Responsibilities:

- Involved in the various phases of **SDLC** (Software Development Life Cycle) like Requirements gathering, Analysis, Design and implementation of the project.
- Assisted in modifying the server for back-end **API** to perform the **CRUD** operations server using **Angular Framework**.
- Perform the test using PyUnit Test using Django. Set up databases that transported **JSON** data.
- Experience in performing CRUD operations using **MongoDB**
- Utilized **Mongoose** for Object relational mapping to create model Schema and database design.
- Implemented token-based authentication (**JWT**) using **Angular Auth Service** and **Node JS**.
- Implemented reading functionality to consume Django API server for the list of customers using Django-rest-framework.
- Validated user input using **Angular** forms validation.
- Developed the customer Service page using Python Django Template.

- Created the form and form validation for customer appointment and contact using Django Form.
- Elaborated customer service page with Django template interpolation.
- Used **Angular** built-in and custom **services** to consume the **RESTful APIs** in the front-end.
- Used Angular routing to implement lazy load.
- Implemented Async call Pipe for Ajax from Back-end Server.
- Customized **Rxjs** for Observable object using the user defined class.
- Adopted **ng-template** and **ng-model** to create the form for user-friendly pop-ups.
- Deploy the application through **GitHub** for the version control.
- Deployed the platform built using Django to AWS. Generated Ec2 and connected to MySQL.

Environment: Angular, Nodejs, MongoDB, Mongoose, Express, Bootstrap CSS3, HTML5

Expedia - Springfield, MO   **November 2014 - April 2015**

Role: Software Engineering

The Expedia Group is primarily known for their e-commerce travel booking website expedia.com. The website can be used to book and pay for travel services with ease. The services available on expedia.com include, but are not limited to flight tickets, hotel bookings, vehicle rentals, etc. I worked on a project that involved revamping certain aspects of Expedia Partner Central (EPC), a portal that is used by the various third-party providers that offer the services expedia.com markets. The EPC portal allows providers to process customer payments, view customer reservations, view and respond to reviews left by guests/customers, reject/confirm bookings, search through all existing reservations, and manage their invoices and account balances with the Expedia Group. As part of this project, I was assigned the task of optimizing and adding to the search filters that already existed in the Expedia Partner Central portal in order to prevent double-bookings, delays in payments, and issues in the process of confirming incoming reservations. This task was achieved using a variety of advanced search algorithms and implementing certain modules and query types in MySQL relational databases.

Responsibilities:

- Involved in the various phases of **SDLC** (Software Development Life Cycle) like Requirements gathering, Analysis, Design and implementation of the project.
- Used **Django**'s **Users** and **Groups** models to implement **authentication** to block views from certain users**.**
- Participated in daily **scrum** project meetings.
- Responsible for creation of **Django** applications, with models, views, and routing.
- Created and wrote queries for models with **Django** in a **MySQL** database.
- Responsible for creating **Django** forms to collect data from the user.
- Responsible for creating efficient and well-designed User Interaction screens with **Django** templates using **HTML5**, **CSS3**, **JavaScript.**
- Used **JavaScript** and **jQuery** to validate input and provide interactive, responsive pages for users.
- Consumed a **REST web service** to get booking information using a separate service layer to parse the request and save the appropriate data.
- Wrote unit tests using **Django.test** and **Unittest** to verify integrity of project during development. Used **Git** source control to manage simultaneous development.

Environment: Python, Django, HTML5, CSS3, JavaScript, MySQL, VS Code, PyCharm, MySQL Workbench

EDUCATION:

Bachelor of Science in Computer Science, Mathematics, and Physics