

# JESSICA CLAIRE

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## SUMMARY

- Over 7 years of IT experience in system design, development, testing and implementation of business applications using Python, Django, Database and cloud technologies.
- Python scripting development using various built-ins, application process automation.
- Knowledge using string functions to clean data remove whitespaces, newlines and special characters without disruption of business data.
- Experience using RegEx to validate and extract data from files, webservices and DB data sets.
- Indepth working experience with various data formats using Python libraries such as JSON, CSV, xmltree, minidom, xml.sax.
- Extensively worked with date, datetime and timezones using pytz. Storing datetime in UTC and conversion to local timezones handling DST.
- Extensive experience with Python Django Web Framework for developing Restful Web Services.
- Experienced in writing SQL Queries, Stored procedures, functions, packages, triggers.
- In-depth working experience with various Python IDE's using Visual Studio Code, Jupyter Notebook, PyCharm, Notepad++.
- Worked extensively with Django to develop rest webservices, handled CRUD operations with restwebservices.
- Created multiple endpoints to deliver data to various UI applications.
- Indepth working knowledge in various version control systems like Git, GitHub, Subversion.
- Experience with Jira and confluence for Issue & project tracking in fast paced environment
- Involved in database-driven web application development using a variety of frameworks such as Django on Python.

## SKILLS

- Technical Expertise
- Languages:
- Python, Django, SQL, JavaScript, JSON, XML, CSV
- Python Libraries: Django, Flask, Pandas, NumPy, Matplotlib, Pytz, file IO (OS Module), Glob
- IDE: Visual Studio Code, Jupyter Notebook, Notepad++, PyCharm, Visual Studio
- Data Science Tools: Python (libraries: Pandas, NumPy, Matplotlib)
- Web Technologies:
- Django, REST, HTML5, CSS3, JavaScript, ASP.Net
- Database: SQL Server, Oracle, MySQL, MongoDB
- Other Tools:
- Jira, Confluence, Jenkins, Oracle SQL Developer, SQL Server Management Studio, MySQL workbench, Postman, Git.

## ADDITIONAL INFORMATION

- US Citizen.
- Excellent communication and interpersonal skills.
- Highly motivated to learn new methodologies, technologies and applications.
- Highly organized with strict attention to detail, analytical problem solver and multitasking proficiency.

## EDUCATION AND TRAINING

### B.S & Masters: Computer Applications

### Microsoft Certified .net professional

## EXPERIENCE

10/2020 to Current **Python Developer**

**Two95 International Inc.** – Mount Laurel Township, NJ

- Involved in the analysis, design & development of various web based applications for NIH, National Eye Institute using Python, SQL and Django
- Integrated backend data driven systems to the NEI application
- Job responsibilities:
  - Designed and Developed DB driven web-based applications based on the requirements, using python Django
  - Create data load python scripts to load CSV files into SQL Server DB
  - Developed post load validation scripts and automated the alert system to send out emails in case of load failures and delays
  - Develop SQL for ad-hoc data/report requests by the clients
  - Developed unit test cases using pyunit, created test scripts and logging mechanisms to make sure python application components were tested and audited as per the SLAs
  - Created REST webservices using Django REST, for CRUD operations, and various dashboard datasets
  - Developed serializers for CRUD Rest operations for user action events
  - Handled multiple view files and response types for JSON/TEXT/XML data sets
  - Used Inserts / Updates and Delete statements for backend of CRUD process
  - Write SQL queries to manipulate/retrieve data from database tables, including large volume data tables
  - Environment: Python 3.3, Django, SQL Server 2012

01/2018 to 10/2020 **Python Developer**

**Two95 International Inc.** – Mountain View, CA

- Involved in the analysis, design and development of NCTM “e-resources” for online access of their Journals through the web
- Articles are stored in PDF format and accessed from AWS S3 service
- The Admin module of this application captures the information about a Journal, its articles and its authors' details
- An option to preview the list of articles and their information is provided for other modules
- The system notifies the subscribers whenever a new issue of a journal is published
- Job responsibilities:
  - Worked with CSV module to read and write CSV files for data processing
  - Handled application configuration with config files to handle metadata
  - Worked with JSONs created and used for webservices & dictionaries to jsons as needed
  - Developed applications and scripts to consume and use XML files using xmltree and xml.sax
  - Developed data acquisition into python using Pandas, numpy, file IO (OS Module)
  - Extensively worked with date, datetime and time zones using pytz
  - Storing datetime in GMT and conversion to local time zones handling DST
  - Developed SQL Queries to support application requirements and ad-hoc requests from the users to generate data extracts
  - For deployment used various version control systems like GitLab
  - Extensive work tracking with Jira and Confluence for Issue & project tracking in a fast-paced environment
  - Worked in various types of unit testing, automated testing, integration testing, user acceptance testing, for the application delivery fulfillment process
  - Involved in database-driven web application development using a variety of frameworks such as Django on Python
  - Environment: Python 3, Django, Django Rest, SQL Server 2012

05/2016 to 11/2018 **Python Developer**

**Two95 International Inc.** – New Haven, CT

- SVB Financial Group Provides banking solutions to various clients from technology to healthcare, from San Jose to Shanghai, with various our clients
- The data team provides data for various applications within the organization
- Responsibilities:
  - Responsible for gathering requirements, system analysis, design, development, testing and deployment
  - Participated in the complete SDLC process
  - Developed monitoring and notification tools using Python
  - Created business unit specific datasets using python scripts from the database tables
  - Create DB views and stored procedures to get data sets, based on timestamps
  - Create testing scripts using PyUnit, the Python unit test framework, for all Python applications
  - Rewrote existing Java application in Python module to deliver client requested data-formats
  - Created Business Logic using Python to create Planning and Tracking functions
  - Generated Python Django Forms to record data of online users
  - Wrote Python routines to log into the websites and fetch data for selected options
  - Developed entire frontend and backend modules using Python on Django Web Framework
  - Using Python Pandas analyzed large data analysis and extracting insights
  - Developed Business Logic using Python on Django Web Framework
  - Created webservices API layer using Django Framework to supply data to various applications
  - Build all database mapping classes using Django models
  - Worked with JSON based REST Web services
  - Involved in AJAX driven application by invoking web services/API and parsing the JSON response
  - Developed complex web, middleware, and back end systems in Python and SQL on the Linux server
  - Handled code checking using Git repository and added the project to GitHub
  - Utilized Agile process and JIRA issue management to track sprint cycles
  - Wrote validation scripts in SQL to validate data loading
  - Actively participated in Stand-up meeting, walkthrough meeting, weekly assessment meetings and daily triage meetings and interacted with business analysts to ensure quality of the application
  - Environment: Python, Java, PyUnit, Pandas, HTML, AJAX, CSS, JavaScript, Django, Jenkins, Amazon Web Services (AWS), JSON, REST, Git, JIRA, SQL, Agile, windows and Linux.

07/2002 to 12/2004 **Web Application Developer**

**Webmd** – Indianapolis, IN

- Involved in the design and development of a web based carrier service module for US military using ASP.Net
- Its purpose is to provide efficient sea and inter modal transportation
- It assists the US military in automating the solicitation, analysis and determination of ocean cargo transportation rates
- The application has Oracle database as the back end, a reporting interface and a data entry interface developed in ASP.Net
- Job responsibilities:
  - Involved in analysis, design and development of the application's reporting and data input interface using ASP.Net, HTML, JavaScript and connecting to Oracle using ADO
  - Incorporated features to download the reports in Microsoft Excel through the application
  - Involved in the unit and system testing of the application and the creation of required documentation
  - HTML 4.0, JavaScript, VB Script, TOAD, Visual Source Safe