JESSICA CLAIRE

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PROFESSIONAL SUMMARY

- 7 years of professional experience as a Python Developer, proficient coder in multiple languages and experience in Design, Development, Implementation of Python, Django, Flask, Pyramid and client - server technologies-based applications, RESTful services, AWS, C, C++, and SQL.
- Software Testing Automation With solid understanding of Test Planning, Test Design, Test Execution and Defect Reporting & Tracking.
- Extensive experience in developing and deploying applications using Python on Amazon Wed Services(AWS) cloud platform.
- Designed and developed continuous integration using Python, Flask, GitHub and Jenkins.
- Extensively used Spark, Numpy, Pandas, and SQL for Data Analysis and Model Building.
- Experienced in creating and developing web-based applications using Python, Django, C++, XML, CSS, HTML, JavaScript, and JQuery.
- Excellent knowledge of OOPS, Multi-Threading and Collections concepts in Python, Used Pandas library for Statistical Analysis.
- Developed web applications and RESTful web services and APIs using Python Flask, Django, Pyramid.
- Proficient in SQL databases MYSQL, PostgreSQL, Oracle and NoSQL databases MongoDB, Cassandra.
- Experienced in MVC frameworks like Django, HTML, CSS, XML, Java Script, jQuery. Bootstrap, JSON.
- Participated incode reviews, contributed to the FASTAPI community through ope-source contributions and stayed up to date on the latest best practices and developments in the FASTAPI and Python communities.
- Proficient in building and deploying AWS resources such as EC2, S3, Lambda, DynamoDB, CloudFormation, CloudWatch, and Elastic Beanstalk.
- Experience in using Version Control Systems like GIT, SVN, and CVS to keep the versions and configurations of the code organized.
- Proficient in setting up and configuring continuous integration and deployment (CI/CD) pipelines using AWS codePipeline, CodeCommit, and CodeBuild.
- Having experience in Agile Methodologies, Scrum stories and sprints experience in a Python based environment and Excel data extracts.
- Experience in building RESTful APIs using AWS API Gateway and deploying serverless functions using AWS Lambda.
- Having Experience in Agile methodologies, Scrum stories and Sprints experience in a Python based environment and excel data extracts.
- Experienced in creating the Docker containers and Docker consoles for managing the application life.
- Experienced in working with Operating Systems like Windows, Linux, and UNIX.
- Possess good interpersonal, and analytical presentation Skills, and the ability to work in self-managed and Team environments.

TECHNICAL SKILLS

- **Languages:** Python, SQL, HTML, XML, C, C++, Shell Script, JavaScript, PHP, Machine Learning
- **Frameworks:** Django, Flask, AngularJS, Node.js, jQuery, Bootstrap
- **Databases:** MYSQL, PostgreSQL, NoSQL, MongoDB, Oracle, Cassandra
- **Web Services:** REST, SOAP, Apache
- **Cloud Services:** AWS, Lambda, S3, EC2, Amazon EMR
- **Versioning Tools:** GIT, CVS, SVN, Bitbucket
- **Tools & IDE:** PyCharm, Sublime, Eclipse, NetBeans, Atom, Jupyter, SeeTest, Selenium WebDriver
- **Libraries:** Pandas, NumPy, Scikit-Learn, PySpark, Matpotlib, Seaborn, Docker, Jenkins, Ansible
- **Operating Systems:** Windows, Linux, Unix

PROFESSIONAL EXPERIENCE

09/2021 to Current   **Sr Python Developer**
Cumming Llc – Columbia, SC

- Participated in the requirement gathering and analysis phase in documenting the business requirements by conducting meetings with various business users.
- Involved in Business logic implementation, data exchange, XML processing, and graphics creation have been done using Python and Django.
- Designed and developed a scalable web application using Python on AWS, leveraging services such as EC2, S3, Lambda, DynamoDB, API Gateway, and CloudFront.
- Implemented MVC architecture using server-side applications, Django, for developing web applications.
- Created a Django dashboard with a custom look and feel for the end user after a careful study of the Django admin site and dashboard.
- Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
- Developed RESTful APIs using Python and Flask, and integrated with various AWS services such as DynamoDB, S3, and Lambda.
- Used AWS EC2 command line interface with Python to automate repetitive work.
- Worked on Flask to connect front-end to back-end, CherryPy to build the server, and word clouds to visualize movies.
- Configured CloudFront to improve performance and provide secure access to the web application.
- Created SQL Alchemy table definition and used Oracle database which was integrated into the PyCharm IDE.
- Developed Micro services using Go language and worked on test cases and also experience of various python application development and CI/CD pipelines tools like GitHub, Jenkins, AWS and Unix shell scripting.
- Worked on Python Open stack APIs using Python scripts to update content in the database and manipulate files.
- Implemented monitoring and logging using AWS Cloudwatch, providing real-time visibility into the performance and health of web application.
- Experience in agile environment using CI/CD model methodology.
- Implemented CI/CD pipeline using jenkins, Ansible playbooks and Ansible Tower.
- Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
- Implemented Data tables to add, delete, update, and display patient records and policy information using PyQt.
- Used Test Driven Approach for developing the application and implemented the unit tests using the Python Unit Test framework.
- Used Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as Scheduling Lambda functions for routine AWS tasks.
- Developed company-wide technical strategy plans for Python-based assets, overseeing development, coding, debugging and [Task].

05/2018 to 07/2021   **Python Developer**
Cumming Llc – Reno, NV

- Managing PostgreSQL production databases, Applying PostgreSQL patches and schema changes.
- Analyzing and implementing new technologies with PostgreSQL server.
- Used Python, Django, and Pyramid frameworks to develop applications and was responsible for both back-end programming and front-end functionality using Ajax, AngularJS, and other technologies.
- Developed and maintained microservices using Python FastAPI, implementing RESTful APIs to support a variety of business use cases.
- Involved in building database Models, APIs, and Views utilizing Python, in order to build an interactive web-based solution.
- Built a FedRAMP-complaint DevOps pipeline for a defense contrator's cloud intfrastructure, utilizing python, jenkins, and Docker.
- Developed Business Logic using Python on Django Web Framework.
- Utilized the FastAPI built-in support for OpenAPI to automatically generate API documentation, making it easy for other developers to understand and use the APIs.
- Develop programs to automate the testing of controller in CI/CD environment using python, Git, Linux command line, Java Script.
- Successfully migrated the Django database from SQLite to MySQL with complete data integrity.
- Key responsibilities include setting up PostgreSQL database with replication and implementing in house backup solutions.
- Used FastAPI's built-in support for asynchronous programming and the asyncio library to improve the API's responsiveness and scalability.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- Integrated FastAPI with various data storage systems, including MySQL, PostgreSQL, and MongoDB, to persist and retrieve data from within the microservices.
- Extensively worked on jenkins to implement Continuous integration (CI) and Continuous deployment (CD) processes.
- Experience to build CI/CD pipeline to automate the code release process using integration tools like Git/SVN, GitHub, Jenkins.
- Developed SQL Queries, Stored Procedures, and Triggers Using Oracle, SQL, PL/SQL.
- Maintained version control of Python by using GIT. (Merge, Branch, Push, and Commit).
- PostgreSQL implementation, customization to run the database in line with the customer expectations.
- Implementing High availabilty solutions using PostgreSQL migrating from different databases to PostgreSQL.

05/2016 to 04/2018   **Python Developer**
Client - Fastly – City, STATE

- Attended Scrum meetings to provide project status demonstrations every two weeks, thus implementing Agile Methodology (Scrum) with Test Driven Development.
- Developed predictive models on large scale datasets to address various business problems through leveraging advanced statistical modeling, machine learning and deep learning.
- Developed a high-performance API using Python FastAPI, capable of handling a large number of requests with minimal latency.
- Preprocessed the data by handling missing values, encoding categorical variables, and scaling numerical features.
- Used R programming language fro graphically critiquing the datasets and to gain insights to interpret the nature of the data.
- Built and optimized several machine learning models such as logistic regression, decision tree, and random forest, to identify the best performing one.
- Worked with Python along with JavaScript to create scalable and common components which can be used across the whole framework.
- Performed database queries from Python using Python-MySQL connector and MySQL package to retrieve information.
- Designed the API using the OpenAPI standard, providing detailed documentation and making it easy for clients to interact with the API.
- For the extraction of data from the database various queries were written and a database was created using MYSQL.
- Written with Object-Oriented Python, Flask, SQL, HTML/CSS, Bootstrap, jQuery, Linux, Sublime Text, Git.
- Having knowledge on AWS Lambda, Auto Scaling,RDS, AWS SNS, SES.
- Implemented automated testing using Pytest, ensuring that the API was always functioning as expected.
- Worked closely with front-end developers and product owners to ensure that the API met business requirements and delivered the desired functionality.
- Contributed to the FastAPI community by sharing knowledge and resources through blog posts, open-source contributions, and participation in online forums and meetups.
- Deployed the model as a web application using Flask to allow the client to interact with the model and obtain predictions in real time.
- Exposure on Multi-Threading factory to distribute learning process back-testing and the into various worker processes.
- Implemented and enhanced CRUD operations for the applications using the MVC architecture of Django framework and also conducted code reviews.

EDUCATION

Bachelor of Science: Computer Science & Engineering
Acharya Nagarjuna University

Master of Science: Information Sciences
Trine University