**Shon Rix**

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**PROFESSIONAL SUMMARY:**

* Around 10+ years of IT experience which includes 5 years as **Python Developer**, proficient coder in **multiple languages and environments** including **Python**, **AWS**, **C**, **C++** and **SQL**.
* Wrote python scripts to parse **XML** documents and load the data in database and developed **web-based** applications using **Python**, **CSS** and **HTML**.
* Worked on applications and developed them with **XML**, **JSON**, **XSL** (**PHP**, **Django**, **Python**, **Rails**).
* Experienced in developing **Web Services** with **Python** programming language.
* Experience in writing **Sub Queries**, **Stored Procedures**, **Triggers**, **Cursors**, and **Functions** on **MySQL** and **PostgreSQL** **database**.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with **Excel macros** and **python libraries.**
* Experienced in developing **web-based** applications using **Python**, **Django**, **PHP**, **C++**, **XML**, **CSS**, **HTML**, **DHTML**, **JavaScript** and **Jquery**.
* Experienced in working with various **Python IDE's** using **PyCharm**, **PyScripter**, **Spyder**, **PyStudio** and PyDev.
* Good experience of software development in **Python** and **IDEs**: **pycharm**, **sublime text**, **Jupyter Notebook**.
* Experienced in **web applications development** using **Django/Python** using **HTML/CSS** for server-side rendered applications.
* Hands on experience working in **WAMP** (**Windows**, **Apache**, **MYSQL**, and **Python/PHP**) and **LAMP** (**Linux**, **Apache**, **My SQL**, and **Python/PHP**) Architecture.
* Worked on **Anaconda Python Environment**.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Experience in implementing **python** alongside using various libraries such as **mat plotlib** for **charts** and **graphs**, **MySQL db** for database connectivity, **python-twitter**, **PySide**, **Pickle**, **Pandas data frame**, **network**, **urllib2**.
* Experienced in using python libraries like **BeautifulSoup**, **NumPy**, **SciPy**, **matplotlib**, **Python-twitter**, **NetworkX**, **urllib2**, **MySQLdb** for **database connectivity** and **IDEs** - **Sublime Text**, **Spyder**, **PyCharm**.
* Experienced in **Requirement gathering**, **Use Case development**, **Business Process flow**, **Business Process Modeling**.
* Extensively used **UML** to develop various **use cases**, **class diagram** and **sequence diagrams**.
* Well versed with design and development of presentation layer for **web applications** using technologies like **HTML5**, **CSS3**, **JavaScript**, **JQuery**, **AJAX**, **AngularJS**, **Bootstrap**, **JSON**, **XML**.
* Exceptionally solid background in composing **API's** along with **Web Services** over **Python**.
* Experience in using **Adobe Flash**, **SVN**, **Eclipse**, **JIRA**, **Github** and **CVS**.
* Experience working knowledge in **UNIX** and **Linux** shell environments using command line utilities.
* Experience with **Unit Testing**/ **Test Driven Development**(**TDD**), **Load Testing** and **Integration Testing**.
* Experienced in version control systems using **CVS**, **SVN** and **Git/Github** and issue tracking tools like **Jira** and **BugZilla**.
* Experienced in writing **SQL Queries**, **Stored procedures**, **functions**, **packages**, **tables**, **views**, **triggers**.
* Experience in working with **Python ORM** Libraries including **Django ORM, SQLAlchemy**.
* Experience in **building frameworks** and automating complex workflows using **Python** for **Test Automation**.
* Experience in implementing with server side technologies with restful **API** and **MVC design** patterns with **node JS** and **Django framework**.
* Hands on experience in using **NOSQL libraries** like **MongoDB, Cassandra, Redis** and **relational databases** like **Oracle, SQLite, PostgreSQL** and **MYSQL databases**.
* Worked on **UNIX shell scripts** for business process and loading data from different interfaces to **HDFS**.
* Experience in deploying applications in **heterogeneous Application Servers TOMCAT, Web Logic** and **Oracle Application. Server**.
* Good Knowledge in **Amazon AWS** **concepts** like **EMR and EC2 web services** which provides fast and efficient processing of **Big Data**.
* Proficiency with the application servers like **WebSphere, WebLogic, JBOSS** and **Tomcat**.
* Proficient in **Object oriented design** experience, with extensive experience of **Python-C/C++** binding using **Boost Python** and **Python C types**.
* Experiences with **File Handling** and **SSH** (**Secure Shell**).
* Working knowledge of errors and exceptions handling **debugging** using **PDB**, **Eclipse** and **Pycharm**.
* Experience with **Docker**, deployment of application inside software containers.
* Excellent **Debugging, Problem Solving, Optimization** and **Testing Skills using GitLab**
* Experience in Python Development and Scientific Programing, and using Numpy and Pandas in Python for Data Manipulation.
* Experience in using Scikit-Learn and Statsmodels in **Python** for **Machine Learning** and **Data Mining**.
* Use of **NLTK, OpenNLP** & **StanfordNLP** for Natural Language Processing and sentiment analysis.
* Experience with **SQL Server Management Studio, SQL Developer, Toad** and **MySQL GUI Tool**.

**TECHNICAL SKILLS**

**Operating Systems:** Windows, MAC OS, Unix/Linux

**Languages:** Python, C++,Java, J2EE

**Python Libraries:** Numpy, Matplotlib, Statsmodels, Scikit-learn/sklearn, SOAP, Scipy

**Python Frameworks:** Pandas, Flask, Django, Docker

**Python IDE:** Sublime Text 3, Eclipse, Jupyter Notebook, VIM, Pycharm

**NLP used for Python:** NLTK, OpenNLP, StanfordNLP (NER, POSTag, Tokenization)

**Databases:** RDBMS (Oracle, SQL Server, MySQL), No SQL (MongoDb), HDFS (Hadoop)

**Web Technologies:** CSS, JavaScript, XML, AJAX, JQuery, Bootstrap, AWS, RESTFul Web Services

**Other Tools***:*Putty, SQL developer, Toad, JIRA, Matlab, R

**PROFESSIONAL EXPERIENCE+**

**J P Morgan Chase** – NYC, NY April 2018 – Current

*Sr Python Developer*

JPMorgan Chase & Co. is multinational [investment bank](https://en.wikipedia.org/wiki/Investment_banking) and [financial services](https://en.wikipedia.org/wiki/Financial_services) company headquartered in [New York City](https://en.wikipedia.org/wiki/New_York_City). JPMorgan Chase is the [largest bank in the United States](https://en.wikipedia.org/wiki/List_of_largest_banks_in_the_United_States), and the [sixth largest bank in the world](https://en.wikipedia.org/wiki/List_of_largest_banks) by total assets, with the amount of $2.534 [trillion](https://en.wikipedia.org/wiki/10%5E12). It is the world's most valuable bank by [market capitalization](https://en.wikipedia.org/wiki/Market_capitalization).

**Responsibilities**

* Automate different workflows, which are initiated manually with **Python scripts** and **Unix shell scripting**.
* Create, activate and program in **Anaconda environment**.
* Worked on predictive analytics use-cases using R language
* Use **Python** unit and functional testing modules such as **unit test**, **unittest2**, **mock**, and **custom frameworks** in-line with **Agile Software Development** methodologies.
* Develop Sqoop scripts to handle change data capture for processing incremental records between new arrived and existing data in **RDBMS** tables.
* Manage datasets using **Panda data frames** and **MySQL, queried MYSQL database queries** from **pytho**n using **Python-MySQL** connector and **MySQL dB** package to retrieve information.
* Involved in the **Web/Application development** using **Python 3.5, HTML5, CSS3, AJAX, JSON** and **Jquery**.
* Develop and tested many features for dashboard using **Python, Java, Bootstrap, CSS, JavaScript** and **Jquery**.
* Generated **Python Django** forms to record data of online users and used **PyTest** for **writing test cases**.
* Implemented and modified various **SQL queries** and **Functions, Cursors** and **Triggers** as per the client requirements.
* Clean data and processed third party spending data into maneuverable deliverables within specific format with Excel macros and python libraries such as **NumPy, SQLAlchemy and matplotlib**.
* Used **Pandas** as **API** to put the data as time series and tabular format for manipulation and retrieval of data.
* Helped with the migration from the old server to **Jira database** (**Matching Fields**) with **Python scripts** for transferring and verifying the information.
* Analyze Format data using **Machine Learning algorithm** by **Python Scikit-Learn**.
* Experience in **python, Jupyter**, Scientific computing stack (**numpy, scipy, pandasand matplotlib**).
* Perform troubleshooting, fixed and deployed many **Python bug fixes** of the two main applications that were a main source of data for both customers and internal customer service team.
* Write **Python scripts** to parse **JSON** documents and load the data in database.
* Generating various capacity planning reports (graphical) using Python packages like **Numpy, matplotlib**.
* Analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various **Python libraries**.
* Developed single page application by using **Angular JS** backed by **MongoDB and NodeJS**.
* Design and maintain **databases** using **Python** and developed **Python based API** (**RESTful Web Service**) using **Flask and SQL Alchemy**.
* Manage code versioning with **GitHub, Bit Bucket** and deployment to staging and production servers and implement **MVC architecture** in developing the **web application** with the help of **Django framework**.
* Use Celery as task queue and **RabbitMQ, Redis** as messaging broker to execute asynchronous tasks.
* Design and manage **API system deployment** using fast http server and **Amazon AWS architecture**.
* Develop remote integration with third party platforms by using **RESTful web services** and Successful implementation of **Apache Spark and Spark Streaming applications** for large scale data.
* Built various graphs for business decision making using **Python mat plotlib library**.
* Involved in development of **Web Services** using **SOAP** for sending and getting data from the external interface in the **XML** format.
* Export Test case Scripts and modified the selenium scripts and executed in **Selenium environment**.
* Developed entire frontend and backend modules using **Python on Django Web Framework**.
* Scraping website using **Python Beautiful Soup**, and then parsed it with **XML**.
* Outputting the parsed data **as JSON/BSON** and stored into **MongoDB**
* Used **NLTK** and **StanfordNLP** to process text data and created offline intelligence.
* Querying data from **MongoDB** and use them as input for the machine learning models
* Using **AWS** for application deployment and configuration.
* Wrote **UNIX shell scripting** for automation.
* Developed views and templates with **Django** view controller and template Language to create a user-friendly website interface.
* Used **JavaScript** and **JSON** to update a portion of a webpage.
* Develop consumer based features using **Django, HTML and Test Driven Development** (**TDD**).
* Developed **Python web services** for processing **JSON** and interfacing with the Data layer.
* Increased the speed of pre-existing search indexes through **Django ORM** **optimizations**.
* Developed module to build **Django ORM queries** that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

**Environment:** Python 2.7, Django, HTML5/CSS, PostgreSQL, MS SQL Server 2013, MySQL, JavaScript, Jupyter Notebook, VIM, Pycharm, Shell Scripting, JIRA.

**State of Indiana** – Indianapolis, IN Jun 2016 – Mar 2018

*Python Developer*

Indiana Department of Health administers healthcare programs, such as Medicare, Medicaid, Children's Health Insurance Program (CHIP), and these three major national healthcare programs benefit millions of Americans.

**Responsibilities:**

* Worked in comprehending and examining the client's business requirements.
* Used **Django frameworks** and **Python** to build **dynamic webpages**.
* Developed tools for monitoring and notification using **Python**.
* Enhanced the application by using **HTML** and **Java script** for design and development.
* Used data structures like directories, tuples, object oriented class based inheritance features for making complex algorithms of networks.
* Created **PHP/MySQL** back-end for data entry from Flash and worked in tandem with the Flash developer to obtain the correct data through query string
* Involved in designing database **Model,** Views using python to build an interactive **web based solution**.
* Generated **Python Django** Forms to record data of online users.
* Implemented Data tables to **add, delete, update** and **display** patient records and policy information using PyQt.
* Implemented a module to connect and view the status of an **Apache Cassandra instance** using **python**.
* Developed **MVC** prototype replacement of current product with **Django**.
* Improved the **Data Security** and generated report efficiently by caching and reusing data.
* Created **UI** using **JavaScript** and **HTML5/CSS3**.
* Managed datasets using **Panda data frames** and **MYSQL**. Queried the database queries using **Python-MySQL** connector and retrieved information using **MySQLdb**.
* Recorded the online users' data using **Python Django** forms and implemented test case using **Pytest**.
* Developed the application using the **TestDriven methodology** and designed the unit tests using **Python Unit test framework**.
* Created **web application** prototype using **jQuery**.
* Deployed the project into **Heroku** using **GIT version** control system,
* Maintained and Updated the application in accordance to the clientele's requirement

**Environment**: Python 3, Django 1.6, Beautiful soup, HTML5, CSS/CSS3, Bootstrap, XML, JSON, JavaScript, JQuery, Angular JS, Backbone JS, Restful Web services, Apache spark, Linux, Git, Amazon s3, Jenkins, MySQL, Mongo DB, T-SQL, Eclipse.

**CITI Bank** -San Diego, CAMar 2015 – May 2016

*Python Developer*

Citibank is the consumer division of [financial services](https://en.wikipedia.org/wiki/Financial_services) [multinational](https://en.wikipedia.org/wiki/Multinational_corporation) [Citigroup](https://en.wikipedia.org/wiki/Citigroup).[[2]](https://en.wikipedia.org/wiki/Citibank#cite_note-2) Citibank was founded in 1812 as the City Bank of New York, and later became First National City Bank of New York. Citibank provides [credit cards](https://en.wikipedia.org/wiki/Credit_card), [mortgages](https://en.wikipedia.org/wiki/Mortgage_loan), [personal loans](https://en.wikipedia.org/wiki/Personal_loan), [commercial loans](https://en.wikipedia.org/wiki/Loan), and [lines of credit](https://en.wikipedia.org/wiki/Line_of_credit). The parent of Citibank, received a [bailout](https://en.wikipedia.org/wiki/Bailout) in the form of an investment from the [U.S. Treasury](https://en.wikipedia.org/wiki/United_States_Department_of_the_Treasury). On November 23, 2008, in addition to an initial investment of $25 billion, a further $20 billion was invested in the company along with guarantees for risky assets of $306 billion [[4]](https://en.wikipedia.org/wiki/Citibank#cite_note-4) The guarantees were issued at a time markets were not confident Citi had enough liquidity to cover loses from those investments.

**Responsibilities:**

* Expanded website functionality, using **Flask framework** in **Python** to control the web application logic
* Built automation script using **Qualcomm API** and **Python BeatifulSoup** to scrape data from social network and other websites using Python.
* Exchanged data with **SQL database** and **NoSQL database** such as **MongoDB**
* Conducted **Big Data analytics** using **Hadoop MapReduce**.
* Generated data-driven reports, data visualization using **Tableau**
* Designed front end and backend of the application using **Python** on **Django Web Framework**.
* Used **HTML, CSS, AJAX, JSON** designed and developed the user interface of the website.
* Developed views and templates with **Django** view controller and template Language to create a user-friendly **website interface**.
* Used **JavaScript** and **JSON** to update a portion of a webpage.
* Develop consumer based features using Django, **HTML** and **Test Driven Development** (**TDD**).
* Developed **Python web services** for processing **JSON** and interfacing with the Data layer.
* Used **GIT** version control and deployed project to **Heroku**.
* Increased the speed of pre-existing search indexes through **DJango ORM optimizations**.

**Environment:** Python 2.7, Django, Hadoop, SQL, SAS, Excel, MongoDB, Flask, JavaScript, Eclipse, Shell Scripting, AngularJS

**Allscripts Healthcare Solutions, Inc (HCL Technologies Ltd)** - Raleigh, NCJun 2012 – Dec 2014

*Web Developer*

Allscripts Healthcare Solutions, Inc. is a publicly traded company that provides [physician practices](https://en.wikipedia.org/wiki/Clinical_practice), [hospitals](https://en.wikipedia.org/wiki/Hospitals), and other healthcare providers with [practice management](https://en.wikipedia.org/wiki/Practice_management) and [electronic health record](https://en.wikipedia.org/wiki/Electronic_health_record) technology. Allscripts also provides solutions for patient engagement and care coordination, as well as [financial](https://en.wikipedia.org/wiki/Financial) and [analytics](https://en.wikipedia.org/wiki/Analytics) technology. The company has more than 180,000 physician users and has solutions in 2,700 [hospitals](https://en.wikipedia.org/wiki/Hospitals) and 13,000 extended care organizations

**Responsibilities:**

* Implemented and designed **user interface** for web based customer application.
* Understanding of application development lifecycle methodologies.
* Built pages from Photoshop mockups using **HTML, Java Script, J Query and CSS**.
* Experience on working with **CSS Background, CSS Layouts, CSS positioning, CSS text, CSS border, CSS margin, CSS padding, CSS table, Pseudo classes, Pseudo elements and CSS behaviors in CSS.**
* Designed table-less layouts using **CSS** and appropriate **HTML** tags as per W3C standards.
* Involved in write application level code to interact with **APIs, Web Services using AJAX, JSON and XML.**
* Designed business applications using web technologies like **HTML, XHTML, and CSS** based on the **W3C standards**.
* Integrated with back end code (**PHP**) for highly interactive **AJAX** based applications.
* Involved in writing and modifying **Procedure, Queries, Views & Triggers** and calling them from **JavaScript** using the Temp net Framework.
* Maintained 24/7 high volume availability demands using open source tools such as **Linux, Apache, PHP, and MySQL.**
* Thorough understanding of the differences and **bugs** in various browsers and browser versions.
* Strong **communication, analytical and interpersonal** skills working within cross-functional teams
* Excellent problem solving skills and the ability to work independently.
* Worked on Cross-Browser compatibility and **fixed the bugs** for several browsers.

**Environment:** HTML, CSS, CSS3, JavaScript, jQuery, AJAX JSON, , Bootstrap, Responsive design, Grunt, Bower, NPM.

**Symantec (HCL Technologies Ltd)** - Cupertino, CA Nov 2009 – May 2012

*Python Developer*

Symantec is headquartered in [Mountain View, California](https://en.wikipedia.org/wiki/Mountain_View,_California), [United States](https://en.wikipedia.org/wiki/United_States). The company provides [cybersecurity](https://en.wikipedia.org/wiki/Computer_security) [software](https://en.wikipedia.org/wiki/Software) and services. Symantec is a [Fortune 500](https://en.wikipedia.org/wiki/Fortune_500) company and a member of the [S&P 500](https://en.wikipedia.org/wiki/S%26P_500) stock-market index. The company also has development centers in Pune, Chennai and Bengaluru (India).

**Responsibilities:**

* Used standard **Python modules** e.g. **CSV, Robot parser, Iter tools, Pickle, Jinja2, Xml** for development.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using **HTML, CSS, JavaScript, Bootstrap, JQuery** and **RESTAPI** calls.
* Query and set up employee registration and login using **Python PostgreSQL**
* We use a multiple row data storage strategy called **MVCC** to make effective **PostgreSQL** responsive in Querying and storing in database.
* Experience for handling documented database and video file for online management system during creating online learning management solutions.
* Automated **RabbitMQ** cluster installations and configuration using **Python/Bash**.
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Fetched twitter feeds for certain important keyword using **Python-twitter library**.
* Used Python library Beautiful Soup for web scrapping to extract data for building graphs.
* Performed troubleshooting, fixed and deployed many **Python bug fixes** for **Learning Management System**
* Used Python Flask framework to build modular & maintainable applications.
* Automated data movements using **Python scripts**.
* Involved in splitting, validating and processing of files.
* Created core **Python API** which will be using among multiple modules.
* Uploaded statistics to **MySQL** for analysis and logging.
* Developed complex **SQL queries** for testing the **database functionality**.
* Used **UNIX server** for application deployment and configuration.
* Written shell scripting for automation.
* Provided technical assistance for **maintenance, integration and testing** of software solutions during development and release processes.
* Created **unit test/regression test framework** for working/new code.

**Environment:** Python, Django, Linux, HTML, CSS, Shell Scripting , PostgreSQL, MySQL, Python-Twitter Library, Flask, Web services, SVN, Pandas, FileZilla etc.