

Sr. Python Developer Sr. Python Developer Sr. Python Developer - Optum Minneapolis, MN Work Experience Sr. Python Developer Optum - Minneapolis, MN October 2017 to Present Minneapolis, MN Oct 2017 - Present Responsibilities: Participated in the complete SDLC process and used PHP to develop website functionality. Worked on Angular JS of Scopes, Models, Services, Dependency Injection, Routing and Prototyping. Developed Responsible Web Design (RWD) UI/UX using HTML 5, CSS3 media queries, Ajax, Angular Js and Bootstrap. Used open -source JavaScript libraries like React in building UI components. Developed GUI HTML5, XHTML, AJAX, CSS3 and JavaScript (Query). Used Python Library Beautiful Soup for web Scrapping. Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager. Migrated servers, databases, and applications from on premise to AWS and Google Cloud Platform. Developed Restful API's using Python Flask and SQLAlchemy data models as well as ensured code quality by writing unit tests using Pytest. Written Programs in Spark using Scala and Python for Data quality check. Worked on analyzing Hadoop cluster and different big data analytic tools such as HiveQL. Hosted GPU based Apache spark jobs using Scala for faster data processing and used spark SQL for querying. Involved in writing application level code to interact with APIs, Web Services using AJAX, JSON and hence building features using jQuery, Ajax and jQuery UI. Used filters while coding in Angular JS. Involved in configured DNS, DHCP, Active Directory, with strong focus on Domain Controller maintenance including Windows Server. Develop consumer based features and applications using Python, Django, HTML and Test Driven Development (TDD). Analyzed the SQL scripts and designed the solution to implement using Scala Involved in debugging the applications monitored on JIRA using agile methodology. Involved in writing application level code to interact with APIs, Web Services using AJAX, JSON, XML, Angular JS and Node JS. Working on Loading and transforming large sets of structured, semi structured and unstructured data using Hadoop/Big data concepts. Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment tools and staged virtual environment using Docker and Kubernetes

Designed database Model, APIs and Views utilizing Python to build an interactive web-based

application. Leveraged Angular resources for all data access, encapsulating URLs and standardizing data access interfaces. Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services. Maintained and developed Docker images for a tech stack including Cassandra, Kafka , Apache , and several in-house written Java services running on Google Cloud Platform (GCP) on Kubernetes. Did Web Development using Html5, CSS3, JavaScript, JQuery, AngularJS, NodeJS, Sinatra, Spring. Designed GUI framework using PyQt and Matplotlib for two quantitative finance patents. Actively involved in building Cassandra data store integrating data in real time from Oracle to Cassandra using Cassandra, Spark streaming. Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity. Managed the Docker container through the pods and performing the load balance between the pods through Kubernetes. Also used PyQt to implement GUI for the user to create, modify and view reports based on client data. Expertise includes bash and python scripting with focus on Devops tools, CI/CD and AWS Cloud Architecture and hands-on Engineering. Utilized continuous integration and automated deployments with Jenkins, Ansible and Docker Coding in LAMP (Linux, Apache, MySQL, and PHP) environment and installed Zookeeper to manage the Hadoop eco-system and other big data sets Used Pandas library for statistics Analysis. Used Numpy for Numerical analysis. Leveraged and integrated Google Cloud Storage and Big Query applications, which connected to Tableau for end user web - based dashboards and reports. Designed and managed API system deployment using fast http server and Amazon AWS architecture. Developed multiple high performance MongoDB replica sets on EC2 with robust reliability. Used Amazon Web Services (AWS) for improved efficiency of storage and fast access. Implemented and used custom built query script to store, index and read large sets of Object data (like MongoDB) Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes Test driven development (TDD) and agile development using integrate platform (Quartz, subversion, Story/Jira/Sprint) for development, testing, signoff and release. Proficient in writing SQL Queries, Stored procedures, functions,

packages, tables, views, triggers using relational databases like Oracle, DB2 and MySQL. Worked with Heroku, Site5, Amazon EC2,S3 for deployment. Load Balancing implementations of solutions to client applications, including HTTP, HTTPS, SSH, FTP & providing global DNS design solution & successful implementation. Exposure in working for developing a portal to manage and entities in a content management system using Flask Developed single page applications using various JavaScript frameworks like SASS, AngularJS. Writing, testing, debugging Javascript OOP modules with AngularJS, JQuery, BackboneJS Used Docker and Ansible to fully automate the deployment and execution of the benchmark suite on a cluster of machines. Performed Troubleshooting and Technical support abilities with Migrations, Network connectivity and Security and Database applications. Worked mainly on Core Java, C++, STL, data structures, UNIX scripting, multithreading. Worked on design and implementation of an audit log system, major API design improvements, and OpenStack cloud management. Developed automated testing framework for command-line based tests on Linux using Objected Oriented Perl and for selenium-based tests using Python. Setting up network environments using TCP/IP, DNS, DHCP and proxy. Established OpenStack project Infrastructure Program and served as tech lead Involved in Unit testing and Integration testing. I have used AWS (Amazon Web services) in Redshift, EmR for improved efficiency of storage. Wrote AJAX framework to transform Datasets and Datatables into HTTP-serializable JSON strings. Excellent project management skill with local and international teams. Ex: Continuous Integration and smoke test projects from Jenkins. Scaled developer infrastructure as project grew and transitioned to OpenStack Foundation UIS system design (Python Object Oriented Design approach, developing various modules/packages/utilities, e.g.: Cryptography - Encryption/Hashing, Foundation Utilities, Persona management, error/exception management etc.). Used WebServices to get travel destination data and rates. Issues pertaining to Realtime data being read from RabbitMQ into Postgres and Cassandra. Python Developer Wells Fargo - San Francisco, CA March 2016 to September 2017 Responsibilities: Worked extensively on the Python based proprietary framework Quartz. Worked on various UI/UX technologies like JSF, HTML5, XHTML, CSS3, JavaScript and JSP tag libraries. Used Django

configuration to manage URLs and application parameters. Used Python, Django framework to develop applications. Developed server side REST web services and called them from angular controllers. Web application development for backend system on using Angular with cutting edge HTML and CSS techniques. Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL, and VMWare API calls. Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes infrastructure and microservice container orchestration. Performed job functions using Spark API's in Scala for real time analysis and for fast querying purposes. Worked on implementing GUI using PyQt in Python, REST & JSON. Develop Unix Shell scripts to perform ELT operations on big data using functions like Sqoop, create external/internal Hive tables, initiate HQL scripts etc. Wrote Python code to simplify lists in Python with list comprehension and Python OOP. Worked with POSTMAN for API testing. Developed REST APIs, and created User Model for application. Designed and developed a horizontally scalable APIs using Python Flask. Developed POC replacing Tibco BE with Cassandra and spark streaming using AWS. Designed and Developed Java Script frame work which is wrapper on top of JQUERY frame work and AJAX based UI frame work for UI Configuration widgets. Developed Date Time Picker using Object Oriented JavaScript extensively. Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery. Handled all the client side validation using JavaScript. Managed large datasets using Panda data frames and MySQL. Develop online applications using OOP as well as Python programming. Develop applications that use MongoDB database, and pymongo. Performed efficient delivery of code based on principles of Test Driven Development (TDD) and continuous integration to keep in line with Agile Software Methodology principles. Work application level code to interact with API's, rest web services using AJAX, JSON, Node.js, XML and Angular.js. Developed Golang API and chat-bot using TDD to automate software deployments and rollbacks. Worked on front end frame works like CSS Bootstrap for responsive webpages. Developed and tested many features for dashboard, created using Bootstrap, CSS, and JavaScript. Involved in back end development

using Python with framework Flask Implemented and consumed Task Schedulers for scheduling job priority while distributing data and map/reduce functions over Grid. For new website features wrote Angular controllers, views and services. Examined event-driven network programming using select () and Twisted framework Created time sensitive scripts to parse to large sets of serialized, unstructured data objects (30 Million), filtering and reducing data into functional reports. Worked on a large scale distributed computing environment, monitoring data nodes to prioritize jobs for processing functions. Used existing Deal Model in Python to inherit and create object data structure for regulatory reporting. Involved in environment, code installation as well as the SVN implementation. Used standard Python modules e.g. csv, robotparser, itertools, pickle, jinja2, lxml for development. Created modules to transform incoming XML trade data into trade objects, parse trade data and create outbound FPML (Financial Products Markup Language) sent to DTCC repositories. Trained extensively in agile methodologies and implemented by participating in scrum standups, Kanban mode, discussing and implementing requirements with Product Owners. Software Developer Verizon - Irving, TX December 2014 to February 2016 Irving, TX Dec 2014 - Feb 2016

Responsibilities: Responsible for all client side UI/UX Validation and implementing Business logic based on user selection using JQuery, JQuery UI. Used HTML/CSS and Javascript for UI/UX development. Converted Visual basic Application to Python, MSQL. Created Reports using JASPER. Designed database Model, Views and API's using Python for interactive web based solutions. Used Angular.js for creating custom directives for re-usable components (multi-field form elements, background file uploads, etc.) Worked with container-based deployments using Docker, working with Docker images, Docker Hub and Docker registries and Kubernetes. Used Test driven approach (TDD) for developing services required for the application. Worked on Openstack - Swift for moving large data files using Keystone and Horizon and integrated them into the web services and client server application Writing modules in Python to connect to MongoDB with PyMongo and doing CRUD operations with MongoDB Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript. Used Django framework for database application development. Created data access using SQL and PL/SQL stored procedures.

Worked extensively on Multithreading and Concurrency for implementing Batch Job Scheduling. Used HTML, CSS, JQuery, JSON and Javascript for front end applications. Used Linux profiler Valgrind for optimization of code. Automated RabbitMQ cluster installations and configuration using Python/Bash. Worked responsible for development and enhancements of all the modules of raildocs and have them running with the design team for project structure. Implemented the presentation layer with HTML, DHTML, Ajax, CSS and JavaScript. Used Python, Perl, CGI, JQuery, JavaScript and JSON at the front end. Developed in Windows and going to deploy it in Linux server. Worked on data exchange from website using XML, JAVA and Web Services. Used python scripts to update content in the database and manipulate files. Generated Python Django Forms to record data of online users. Software Developer GE Energy - Seattle, WA October 2013 to November 2014 Seattle, WA Oct 2013 - Nov 2014 Responsibilities: Designed front end using UI, HTML, Bootstrap, and JavaScript frameworks also worked with server side technologies including databases, and MVC design patterns. Involved in requirement Analysis, documentation of high level and low level design. Created prototypes in HTML, JavaScript and CSS for different UI pages. Developed SOAP WebServices using Apache CXF and Axis2 framework and deployed on Tomcat. Developed JAX-WS WebServices and deployed on WebSphere Application Server. Migrated web service applications from Tomcat to WebSphere Application Server. Worked on java security like encryption, decryption, and generation of signature. Used EJB Query Language for all database interactions. Worked with Core java concepts. (Generics, Collections, OOP, Threads Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and Postgre SQL. Involved in implementing static and dynamic Web mapping of business logic and technical requirements. Collaborated with business during requirement analysis and design discussions. Worked on migration of light weight web applications from WebLogic to Tomcat. Responsible for developing the application level flow by utilizing Java, JSP and Struts. Responsible for developing the OS specific scripts (Shell Scripts) for automating the closing doc Process. Used JSP for the front-end development and JavaScript for validation. Education Bachelor's Skills C/c++, C++, Django, Docker, Hadoop, Hive, Javascript,

Angular.js, Bootstrap, Node.js, Reactjs, Redux, Jenkins, Json, Pig, Python, Matplotlib, Numpy, Pandas, Visio Additional Information TECHNICAL SKILLS: Programming Languages: JavaScript, Python, C/C++, SQL, Scala. DevOps Tools: Ansible, Jenkins, Docker, CI/CD, Puppet and chef, Github. Modern Web Stack: Angular.js, JavaScript, Bootstrap, JQuery, HTML5, CSS3, SASS, LESS, npm , Kendo UI ,Node.js ReactJS, Redux, Grunt. Technologies: Netconf, Yang, Openstack, BSCS, MSCS Frameworks: Django, AngularJS, Mongoddb Big data: Hadoop, Pig, Hive Web Technologies: HTML5, CSS3, AWS, Google Cloud, JavaScript, XML, Pandas, Servlet, JSP, JSON, ExtJs, JQuery, AJAX. Web Services: AWS (EC2, AMI, EBS Cloud watch, AWS Config, Auto-scaling, REST, SOAP, WSDL Python Libraries: BeautifulSoup, NumPy, SciPy, matplotlib, Python-twitter Databases: MYSQL, Oracle, SQL Lite NoSQL: MongoDB, Dynamo DB, Cassandra, Redis Software/IDE: Sublime Text, PyCharm, NetBeans, MS Visio. Operating Systems: Windows, Linux. Bug Tracking tools: Bugzilla, Jira, Confluence

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