**Chaitanya Nadimpalli**

**Sr. Python Developer**

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**Summary:**

* **Over 8** years of experience in IT industry as **Python** **Developer** in System Analysis, Design, Development, Implementation of various Client/Server, Web-based and Business applications.
* Experience in developing web-based applications using **Python 3.3/2.7, Django 1.8/1.7/1.4/1.3.**
* Developed web applications and RESTful web services and APIs using **Python Flask, Django, Pyramid and PHP**
* Experience in implementing with server side technologies with restful API and MVC design patterns with **node JS and Django** framework.
* Worked on object oriented programming concepts using **Python and Django**.
* Developed **RESTful API's** using **Django REST** Framework, consumed via Rest angular, a 3rd party Angular.JS service.
* Experience in Implementation of **MVC/ MVW** architecture using **Servlet**, **Django**, and **RESTful**, **SOAP web service** and **SOAPUI**.
* Experienced in working with various Python IDE’s using **PyCharm**, **PyScripter**, **Spyder**, **PyStudio,** **PyDev**, **Eclipse**, **NetBeans**, **Sublime text**, **Spyder** and **emacs**.
* Excellent experience with **Python** development under **Linux OS (Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora).**
* Implemented different python libraries **Beautiful Soup, numpy, scipy, pytables, matplotlib, python-twitter, Pandas data frame and urllib2** in various tasks.
* Experienced in **MVC** frameworks like **Django, Angular JS, Java Script, JQuery and Node.js.**
* Expertise in designing rich **Graphic User Interface(GUI)** and frontend layouts on the web using **CSS, HTML, XML, JavaScript, JSON, AJAX, XAML and JQuery, Bootstrap, Node.js, Angular.js, backbone.js.**
* Proficient in developing multi-threaded web services using **CherryPy & bottlePy** framework.
* Leveraging queuing architectures with **RabbitMQ** for scalability, performance and building.
* Knowledge in working with continuous deployment using **Heroku** and **Jenkins**.
* Good experience in working with Amazon Web Services like **EC2**, Virtual private clouds (**VPCs**), Storage models (**EBS**, **S3**, instance storage), Elastic Load Balancers (**ELBs**)
* Expertise in developing applications using **Java, J2EE Technologies (Servlets, JSP, Java Web Services, EJB, Struts), JDK, Java Applets, JDBC, XML, JavaScript, HTML, DHTML, CSS, SOAP.**
* Experienced in NoSQL technologies like **MongoDB, Apache Cassandra, Redis** and relational databases like **Oracle, SQLite, PostgreSQL and MySQL** databases.
* Experienced in **Agile, Waterfall** Methodologies, **Scrum** stories and sprints experience in a **Python** based environment, along with **data analytics, data wrangling and Excel data extracts.**
* Experience in designing the automation framework using **Perl** and **Shell scripting**.
* Experience with **Version Control**, ideally **SVN**, **CVS, BitBucket** and **GIT** .
* Experienced in Functional Services Testing, **GUI** Testing, Back-end Testing using **SQL**, Browser Compatibility Testing, Web Services Testing, System Testing and also profound knowledge in Test plans, **Test Cases** and **Test Scripts**.
* Experienced in **Unit testing, Integration testing, User acceptance testing, Functional testing.**

**Technical Skills:**

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| **Primary Languages** | Python, Java, C, C++ |
| **Python Libraries** | Beautiful Soup, numpy, scipy, matplotlib, python-twitter, Pandas data frame, urllib2,CSV |
| **Frameworks** | Bootstrap, Django, Node.JS, Flask, PyJamas, Pyramid, Hibernate |
| **Operating Systems** | Windows Vista/XP/7/8/10, Linux, Unix, Mac, Fedora Linux, Red hat Linux |
| **Databases** | Oracle 8i/9i/10g/11g, MySQL, Sqlite3, Cassandra, Redis and Mongo DB |
| **IDE’s** | PyCharm, Eclipse, NetBeans, Sublime Text, MS Visual Studio, PyDev, RIDE |
| **Servers** | Apache Tomcat, WebSphere, JBoss, WebLogic, XAMPP |
| **Deployment tools** | MS Azure, Heroku, Jenkins, Amazon Web Services (EC2, S3, EBS, ELB, SES) |
| **Web Technologies** | HTML, CSS, DHTML, XML, Java Script, JQuery, AJAX |
| **Protocols** | TCP/IP, HTTP/HTTPS, REST, SOAP |
| **J2EE** | JDBC, JNDI, JSP and servlets |
| **Testing Tools** | Bugzilla, Jasmine, Pyunit, JIRA and Junit, zope, pytest, nose, Robot |

**Professional Experience:**

**Cargill, Hopkins, MN Apr 2016 – till date**

**Sr. Python Developer**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Implemented Business logic in **Back Office** of Front Arena using **Python 2.7 & Front Arena API**.
* **Front Arena** is third party Application used by Cargill Risk Management, a financial division of Cargill that handles Front Office, Middle Office & Back Office.
* Worked closely with **Business Users** and **GL Lead** of Accounting as a developer in an Individual Project fulfilling their customized requirements.
* Worked on Giant Volumes of Data Sets i.e up to million day to day transactions of General Ledger for Analysis, Data Manipulation & Journal write back.
* Worked on **Django API’s** for accessing the database.
* Developed **Views** and **Templates** with Python and using Django’s view controller and template language, Website interface is created.
* Developed a **Python/Django** based web application using Python scripting for data processing, **MySQL** for the database, and **HTML/CSS/JQuery** and HighCharts for data visualization of the served pages.
* Designed and Developed User Interface using front-end technologies like **HTML**, **CSS**, **JavaScript**, **JQuery**, **AngularJS**, **Bootstrap** and **JSON**.
* Designed and maintained databases using Python and developed Python based **API** (**RESTful** Web Service) using **Flask**, **SQLAlchemy** and **PostgreSQL.**
* Used **Python** libraries like **Numpy**, **Scipy** and **Pandas.**
* Managed large datasets using **Panda data frames** which is a python Data Analysis Library and also using **MySQL**.
* Built various graphs for business decision making using Python **matplotlib** library.
* Used Python library **Beautiful Soup** for **webScrapping**.
* Written internal Automated Python scripts for the Back Office that supports EOM processing in the **Extension Manager** of Front Arena.
* Excellent Experience and knowledge in using **XML**, **SOAP**, web Service for inter operable software applications.
* Implemented **RESTful** Web Services for the data transportation between multiple systems.
* Developed API modularizing existing python module with the help of **pyyaml** libraries which is an **YAML** parser and emitter for Python.
* Build **SQL** queries for performing various **CRUD** operations includes create, read, update and delete operations.
* Followed **PEP-8** Standards **&** used **SONAR** for writing quality code.
* Worked on **Selenium** testing framework.
* Performed **Unit testing, Functional Testing, Integration Testing, and Performance Testing**.
* Used Atlassian **BitBucket** for Version control.
* Worked on **Jenkins** continuous integration tool for deployment of project.
* Deployed the project into **Jenkins** using GIT version control system.
* Workedon dynamic **Agile** based environment with Daily Standups, Peer-Peer code reviews & three weeks sprint cycles.
* Documented the design solutions and created stories for client requirements.

**Environment: Python 2.7, Django 1.8, FLASK, MySQL, PostgreSQL, AJAX, SOAP, REST, SJQuery, JavaScript, Bootstrap, PyCharm, PyDev, SONAR.**

**Celgene Corporation, Summit, NJ June 2015 – Mar 2016**

**Sr. Python Developer**

**Responsibilities**:

* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML**, **CSS**, **JavaScript** and **JQuery**.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Refactor **Python**/**Django** modules to deliver certain format of data.
* Managed datasets using Panda data frames and **MySQL**, queried **MYSQL** database queries from python using **Python-MySQL** connector and **MySQLdb** package to retrieve information.
* Utilized **Python** libraries **wxPython**, **numPY**, **Twisted** and **matPlotLib**.
* Wrote **Python** scripts to parse **XML** documents and load the data in **database**.
* Used **Wireshark**, live **http** headers, and **Fiddler2** debugging proxy to debug the **Flash** object and help the developer create a functional component. The **PHP** page for displaying the data uses **AJAX** to sort and display the data. The page also outputs data to .**csv** for viewing in Microsoft Excel.
* **Parsers** written in **Python** for extracting useful data from the design data base.
* Development of **Python** **APIs** to dump the array structures in the Processor at the failure point for **debugging**.
* Created Python and Bash tools to increase efficiency of call center application system and operations; data conversion scripts, **AMQP/RabbitMQ**, **REST**, **JSON**, and **CRUD** scripts for API Integration.
* Written functional **phpunit** test cases for **DataLayer**, and **Searchserver** classes using **Django**, **Curl**, **XML**, **JSON**, **REST** base services, and **MongoDB**.
* Creating **restful** web services for Catalog and Pricing with **Django** **MVT**, **Jersey**, **MySQL**, and **MongoDB**.
* Used **Celery** with **RabbitMQ**, **MySQL**, **Django,** and **Flask** to create a distributed worker framework.
* Representation of the system in hierarchy form by defining the components, subcomponents using **Python** and developed set of **library** functions over the system based on the user needs.
* Generated graphical reports using **python** package **Numpy** and **matPlotLib**.
* Usage of advance features like **pickle**/**unpickle** in **python** for sharing the information across the applications.
* Used **Selenium** Library to write fully functioning test **automation** process that allowed the simulation of submitting different requests from multiple browsers to web application.
* Created Data tables utilizing **PyQtto** display customer and policy information and **add**, **delete**, **update** customer records.
* Used **Python** and **Django** creating graphics, **XML** processing, data exchange and business logic implementation.
* Used **Python** based **GUI** components for the front end functionality such as selection criteria. Administration of dedicated collocated **RHEL** 4 machine and configured complex **Apache** configuration files.
* Added support for Amazon **AWS** **S3** and **RDS** to host static/media files and the database into **Amazon** **Cloud**.
* Writing **Python** scripts with **CloudFormation** templates to automate installation of **Autoscaling**, **EC2**, **VPC**, and other services.
* Developed tools using **Python**, **Shell** scripting, **XML** to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Used third party **JQuery** based plug-ins like **JQueryUI**, **Datatables** etc. Heavily used **JavaScript** for Form Submit and other **UI** elements during development.
* Utilize in-depth knowledge of Technical experience in **LAMP** and other leading-edge products and technology in conjunction with industry and business skills to deliver solutions to customer.
* Representation of the system in hierarchy form by defining the components, subcomponents using **Python** and developed set of **library** functions over the system based on the user needs.
* Used **REST** and **SOAP** **UI** for testing **web** **service** for server side changes.

**Environment: Python 3.4/2.7, Django 1.7, Flask, MongoDB, MySQL, AJAX, SOAP, REST, JQuery, JavaScript, Bootstrap, PyCharm, AWS (EC2, S3, RDS).**

**AMWAY CORPORATION, Ada, MI August 2014 - May 2015**

**Full Stack Python Developer**

**Responsibilities:**

* Analyzed system requirements specifications and also in client interaction during requirements specifications.
* Designed the front end of the application using **Python 2.7, HTML5, CSS, AJAX, JSON and JQuery.**
* Worked on backend of the application, mainly using Active Records.
* Designed and developed communication between client and server using Secured Web services.
* Developed and tested many features for dashboard using **Python, Java, Bootstrap, CSS, JavaScript and JQuery.**
* Writing backend programming in **Python.**
* Used **JavaScript and XML** to update a portion of a webpage.
* Developed consumer based features and applications using **Python and Django** in test driven Development and pair based programming.
* Performed Unit testing, Integration Testing, GUI and web application testing using **Rspec**.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML5, CSS, JavaScript and JQuery**
* **Angular.js** is used to build efficient backend for client web application.
* Worked on **Jenkins** continuous integration tool for deployment of project.
* Worked on changes to open stack and AWS to accommodate large-scale data center deployment.
* Implemented simulated top-down **SOAP** based Web Service to test the business logic for the rating calculation.
* Created interactive data charts on Customer portal web application using High charts JavaScript library with data coming from **Apache Cassandra**.
* Used **Celery as task queue and RabbitMQ, Redis** as messaging broker to execute asynchronous tasks
* Worked on front end frame works like **CSS Bootstrap** for development of Web application.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization.
* Deployed the project into **Jenkins using GIT version** control system.
* Learned to index and search/query large number of documents inside Elastic search.
* Used **Amazon Cloud EC2** along with **Amazon SQS** to upload and retrieve project history.
* Created the environment specific settings for a new deployment and update the deployment specific conditional checks in code base to use specific checks.
* For the large data management used **TFS** and delivered reliable end product.
* Used advanced packages like **Mock, patch and beautiful soup (b4)** to perform unit testing.
* Worked on translation of web pages to different languages as per client requirements.
* Updated the client admin tool to have the new features like support for internalization, support for customer service and etc.
* Implemented responsive vector maps and charts on web pages using the data from **MongoDB.**
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Manage, collaborate and coordinate the work of an offshore development team.
* Worked on rebranding the existing web pages to clients according to the type of deployment.
* Worked on updating the existing clip board to have the new features as per the client requirements.
* Used many regular expressions in order to match the pattern with the existing one.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Work with team of developers on python applications for RISK management.
* Taken part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Improved code reuse and performance by making effective use of various design patterns.
* Documented the design solutions and created stories for client requirements.

**Environment: Python 2.7, Django 1.7, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Puppet, MS SQL Server, Nginix server, Amazon s3, Jenkins, Mongo DB, Elastic search, T-SQL, Beautiful soup, TFS, nose, JavaScript, Eclipse, Git, GitHub, Linux, and MAC OSX.**

**VERACODE – Burlington, MA July 2013 – July 2014**

**Python /Django Developer**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Participated in the complete SDLC process.
* Implemented Business logic using **Python 2.7**.
* Used **Django** framework for database layer development.
* Developed GUI using **CSS**, **HTML**, **JavaScript**, **Bootstrap** and **JQuery**.
* Responsible for setting up Python **REST** API framework using **DJANGO**.
* Created database using MySQL, wrote several SQL queries to extract data from database.
* Wrote scripts in Python for automation of testing jobs.
* Deployment and Build on various environments including **Linux** and **UNIX**.
* Installed and maintained web servers Tomcat and Apache HTTP Web servers in RedHat Linux.
* Tools like LoadRunner, **SoapUI**, VUGEN to perform automation and manual testing of application.
* Used web services for testing and integration.
* Implemented and used custom built query script to store, index and read large sets of Object data (like MongoDb)
* Development of **Python APIs** to dump the array structures in the Processor at the failure point for debugging.
* Implemented monitoring and established best practices around using elastic search.
* Effectively communicated with the external vendors to resolve queries.
* Used GIT for the version control.

**Environment**:  **Python 2.7, Django, C++, JSON, XML, LoadRunner, VUGEN, SoapUI, HTML, JavaScript, CSS, Bootstrap, JQuery, Restful API, Shell Scripting, PL/SQL, MySQL, ODBC, GIT, Tomcat, MongoDb, Apache HTTP Web servers, RedHat Linux and Unix**.

**FIRST BANK INC., ST. Louis, MO August 2012 – June 2013**

**Python Developer**

**Responsibilities:**

* Developed Python scripts to read from Excel files, generate **XML** configuration files and also for generating IP access frequency lists in different data logs.
* Developed **views** and **templates** with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Designed email marketing campaigns and also created responsive web forms that saved data into a database using **Python/ Django** Framework.
* Generated Python Django Forms, Crispy forms to record data, login and signup of online users.
* Learned technical skills that are required for the system like **CherryPy**, **Django**, **Flask**, **Pandas**, **JIRA**, and **Heroku** etc.
* Collaborated with a team of instructors and programmers to develop the curriculum and guidelines for workshops to teach the logic of programming.
* Worked for development and enhancements of all the modules of raildocs and have them running it the design team for project structure.
* Successfully migrated the Django database from **SQLite** to **MySQL** to **PostgresSQL** with complete data integrity.
* Upgraded Python 2.5 to Python 2.7 on a RHEL server. This upgrade was necessary because in lined models with UTF-8 characters were causing unexpected errors.
* Developed Application to access **JSON** and **XML** from **Restful** Web Service from consumer side using JavaScript and Angular.JS.
* Expertise in developing web-based LAMD stack applications using **Python** and **Django** for large dataset analysis.
* Designed and Implemented a Random Unique Test selector Package on processing large volume of data using **Python** and Django ORM.
* Developed and implemented the user registration and login feature for the application process from scratch by extending Django user model.
* Write a wrapper program in Python to automate the entire process like running different executables of FORTAN and call the Java swing program.
* Database Administration activities like taking backup, checking log messages, looking for database optimization.
* Learned how to create specific images using Python Imaging Library for the custom images used for each book.
* Developed and maintained parsing modules, which read **CSV**, **XML** and **JSON** data from files and other **REST** services, processed the data.

**Environment: Python 2.7, Django 1.4, RabbitMQ, FORTAN, XML, WSDL, CherryPy, Flask, Django, Pandas, MySQL, CSS, HTML, Jenkins, Google App Engine.**

**IHC GROUP, Phoenix, AZ Oct 2011 – July 2012**

**Python Developer**

**Responsibilities:**

* Worked on developing internal testing tools written in **Python**.
* Worked on optimization of test server by implementing multiprocessing for the caching system.
* Performed client side validations using **JavaScript** and server side validations using various other frameworks like **Django**.
* Designed and developed the **UI** using **HTML**, **AJAX**, **CSS** and **JavaScript**.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Created most important Business Rules which are useful for the scope of project and needs of customers.
* Improved performance by using more modularized approach and using more in built methods.
* Used **Numpy** for Numerical analysis for Insurance premium.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the **XML** format.
* Wrote unit test cases for testing tools.
* Build **SQL** queries for performing various **CRUD** operations includes create, read, update and delete operations.
* Developed **GUI** using **webapp2** for dynamically displaying the test block documentation and other features of python code using a web browser.
* Improved code reuse and performance by making effective use of various design patterns.
* Worked with **UNIX** like **OS** on regular basis.
* Experience in using **Git**, **GitHub**, and **Amazon** **EC2** and deployment using **Heroku**.

**Environment:** **Python 2.7, Django, HTML, CSS, AJAX, XML, SQL, SOAP, pyyaml, MS SQL Server, JavaScript, Eclipse, Linux, Unix, Shell Scripting, Git, GitHub, Amazon EC2, Heroku.**

**STRATEOLOGY, Hyderabad, INDIA June 2010 – Sep 2011**

**Java /Python Developer**

**Responsibilities:**

* Involved in Design and development of **UI** screens for Add and Update Lending Application using **Struts** frame work.
* Involved in developing the business components using **JAVA** and **JDBC**.
* Design and development of **UI** screens using **JSP**.
* Managing, training and coordinating the team.
* Developed a new product for the unsecured loans featuring Term Business and personal loans.
* Developed and implemented the user registration and login feature for the application process from scratch by extending **Django** user model.
* Used **Restful web** service calls for the validation.
* Worked with **AJAX** framework to get the **asynchronous** response for the user request and used **JavaScript** for the validation.
* Developed a fully automated continuous integration system using **Git**, **Gerrit**, **Jenkins**, **MySQL** and custom tools developed in **Python** and **Bash**.
* Implemented schema and data migration for the **postgres** **database** using South migration tool.
* Developed user-friendly modals for the form submissions using simplemodal.js, **JQuery,** **Ajax** and **JavaScript**.
* Experience in building the war with help the **putty** and deployed into cloud environment using the cloud controller and experience in solving the cloud issue.
* Worked closely with Client managers/Business Analysts of the bank to drive technical solutions, design and provide development estimates for schedule and effort.
* Worked very closely with product owners, project managers and vendors to satisfy all the business needs.
* Designed and developed the **UI** of the website using **HTML, AJAX, CSS, JQuery and JavaScript**.
* Used **Django** framework for database application development.
* Dynamic, hard-working, ability to work in-groups as well as independently with initiative to learn new technologies/tool quickly and emphasis on delivering quality services.
* Have strong ability to build productive relationships with peers, management, and clients using strong communication, interpersonal, organizational, and planning skills.

**Environment: Java, Python, Django, J2EE, JSP, Struts, Oracle, Eclipse, MySQL, Linux, HTML, CSS, AJAX, JavaScript**

**PATNI COMPUTER SYSTEMS, Hyderabad, INDIA June 2008 – May 2010**

**Java Developer**

**Responsibilities:**

* Utilized the various **J2EE** Design patterns to develop the Business modules based on the required functionality.
* Developed **user interface** (view component of **MVC** architecture) with **JSP**, **Struts** **Custom** **Tag** **libraries**, **HTML** and **JavaScript**.
* Worked with **AJAX** framework to get the asynchronous response for the user request and used JavaScript for the validation.
* Extensively Used **Ant** **tool** to build and configure **J2EE** applications and used **Log4J** for logging in the application.
* Responsible for designing different **JSP** **pages** and writing Action class using **Struts** **framework** for Security, and Search modules.
* Automated the **HTML** and **JSP** **pages** indexing process of search module using **Apache** **Ant** **tool** and **singleton** **design** **pattern**.
* Used **Enterprise Java Beans (EJBs)** extensively in the application. Developed and deployed Session Beans to perform user authentication.
* Implemented client side validations for Search and Security modules using **JavaScript** and **Struts** Validation Framework.
* Involved in doing Waterfall and Incremental model practices and planning to produce quality deliverables within time.
* Adopted **J2EE** **best** **practices** using **J2EE** design patterns for designing and developing the application components.
* Implemented Web service calls using **JAX**-**WS** and **SOAP** that provide Global information support such as Customer and Account management.

**Environment: Java, J2EE, Java Server Pages (JSP), JavaScript, Servlets, JDBC, ODBC, Struts Framework, Junit, XML, WebLogic Application Server.**

**Education:** Bachelor of Engineering, Electronics & Communication Engineering, Andhra University