**Kastwar**A

Sr. Python Developer

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| WORK EXPERIENCE  DropBox Inc, San Francisco, CA/// **Sr. Python Developer** /// April, 2017 -> Now  *Dropbox is a modern workspace designed to reduce busywork. It is a personal cloud storage service that is frequently used for file sharing and collaboration.*  **Dropbox Plus:** With 2 TB (2,000 GB) of storage for anyone who wants to keep all their files safe, in one place, and always accessible.   * Developed entire frontend and backend modules using Python on Django Web Framework. * Used Python to interface with JQuery UI and manage the storage and deletion of content. * Developed monitoring and notification tools using Python. * Parsed the extracted data using python to feed it to machine learning algorithms for analysis. * Business logic implementation, data exchange, XML processing and graphics creation has been done using Python and Django. * Used Django Framework in developing web application to implement the MVC architecture along with Django's ORM model. * Used Django configuration to manage URLs and application parameters. * Worked directly with stakeholders to develop small- and large-scale modules using Python and Django. * Worked with Docker for containing microservices and Docker file, Jenkins for Automated Integration and deployment process and Kubernates for deploying pods. * Created UI using HTML5, CSS3 and backend using python libraries like pandas, geopy and flask. * Built Web API on top of Flask and Tornado Frameworks to perform REST methods. Used MongoDB and MySQL databases in Web API development. * Developed several Python APIs that works both in Linux and Windows while maintaining them using the version control SVN. * Identified and optimized distributed processing with Celery, improved setup and reduced source execution bottlenecks. * Used Java 8 features like lambda expressions, parallel operations on collections, multithreading for effective sorting mechanisms and streams to store and process the data. * Performed validations using Spring validation controls and regular expressions in Java. * Worked on middle tier framework with Hibernate and Spring connectors to tie back-end business logic/systems with web properties via a corresponding RESTful API. * Implemented Bean classes and configured in spring configuration file for Dependency Injection, and developed Controller Classes using Spring MVC, Spring AOP, Spring Boot, Spring Batch modules, handled security using Spring Security. * Developed Hibernate configuration and session-per-request design pattern for making database connectivity and accessing the session for database transactions respectively. * Implemented proto type beans incorporated into singleton beans using springlook-up. | PROFILE  Experienced Python and Java Developer with a demonstrated history in developing Enterprise based applications. A polyglot coder specializing in Python, REST Api, Java, AWS, SQL, Agile, Amazon Cloud EC2, and S3 while working on several Python packages like Numpy, PySide, Scipy, wxPython, PyTables  EXPERTISE  Python ●●●●●  Django ●●●●●  NumPy ●●●●●  PyCharm ●●●●  JavaScript ●●●●●  REST API ●●●●●  Scikit-Learn ●●●●  CI/CD ●●●●●  ML ●●●  Ansible ●●●●  MySQL ●●●●●  Angular ●●●●●  React ●●●●●  EDUCATION  B.S (CS)  CERTIFICATION  PCAP |

* Configured Java objects with back end database tables using O/R mapping in Hibernate and used Hibernate concept like Hibernate Connection Pooling, HQL, Collections, Hibernate Caching, and Hibernate Transactions.
* Involved in multi-tiered JEE design utilizing Spring Inversion of Control (IOC) architecture.
* Developed scripts in Python using the Scikit-learn and Tensorflow machine learning libraries.
* Developed module using Ruby on Rails on Linux OS, backed by MySQL and Capistrano to automate and ease the deployment process. Created responsive features using ES6, and GraphQL.
* Created TypeScript reusable components and services to consume REST API's using component-based architecture provided by Angular 2. Used JSON Web Token for Authentication and Bcrypt for hashing.
* Wrote PL/SQL procedures and queries in Oracle and invoked those procedures from the Java components.
* Installed, configured, tested, monitored, upgraded, and tuned new and existing PostgreSQL databases.
* Worked on performance tuning of cluster using Cassandra Configuration file and JVM Parameters.
* Worked with various Python Integrated Development Environments like PyCharm and Atom.
* GitLab CI/CD integration with Docker build environments.
* Configured and applied modern software development tools such as gulp, Git, and webpack to streamline the web development process.
* Automated existing scripts for performance calculations using NumPy, SciPy and SQL Alchemy.
* Wrote front-end code with HTML5, CSS3, and JavaScript frameworks (Angular; Node) and libraries to implement enterprise-classes and components.
* Implemented various screens for the front end using React.js and used various predefined components from NPM and Redux library.
* Installed Anaconda using Python 3 and managing the services and libraries required for data science analysis.
* Implemented BDD using Jasmine for JS unit tests and Cucumber for integration tests
* Developed UNIT test cases using Junit, TestNG, Mockito and configured them through Maven plugins to be part of continuous integration.
* Created Selenium web-driver automation scripts using JAVA to validate functionality on various browsers.
* Performed Unit testing for React application with Jest and Enzyme.
* Participated in planning, analysis, design and implementation of different modules using Agile (Scrum) Methodology.
* Implemented DevOps group running Jenkins in a Docker container with S3, EC2 slaves in Amazon AWS cloud.
* Developed APIs using MySQL, RDS database with node.js framework
* Built log files reader with Amazon S3, Kinesis, DynamoDB and Lambda.
* Involved in designing and deploying multiple modules using cloud infrastructure on Google Cloud Platform.
* Customized TFS 2018 Work Item Templates and Workflow of the Process Template.
* Used and configured NGINX and Node.js servers for the portal to run on and made them work even for CORS.
* Communicated through slack for internal communication of the teams.
* Implemented zoom in, zoom out, drag and drop functionalities using JavaScript and jQuery for touch screens and cursor controls. Built the Dryv API test suite using Travis CI.
* Managed a PaaS for deployments using Docker, Ansible, Mesos and Marathon which considerably reduced deployment risks.
* Worked on Kubernetes to manage containerized applications using its nodes, ConfigMaps, selectors, services and deployed application containers as Pods. Implemented micro services cluster & scaling using Docker swarm.

Python, Django, Microservices, Pandas, Java, Spring Boot, Hibernate, Flask, Python API, Celery, Tordo, JavaScript, HTML5, CSS3, Angular, React.JS, Redux, ML, TensorFlow, PyTorch, Scikit-Learn, NumPy, Angular, Es6, Typescript, Postgres, MySQL, Cassandra, Rest, PyCharm, Git, Selenium, Jest, Agile, Scrum, AWS, EC2, GCP, JSON, Linux, Nginx, Docker, Jenkins, Travis CI, Ansible, Kubernetes

CVS Caremark, Woonsocket, RI/// **Sr. Python Developer** /// May-2015 to March-2017

*CVS Caremark is the prescription benefit management subsidiary of CVS Health.*

**CVS Caremark :** Helps physicians manage and help their patients who are suffering from complex disorders and require specialized therapies and personalized care.

* Wrote Python code embedded with JSON and XML to produce HTTP GET request, parsing HTML data from application.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Built Database Model, Views and API's using Python for interactive web based solutions.
* 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 advanced core Java features like annotations, generics, enhanced for loop, throughout the application for well-defined programming.
* Re-architected JAVA application using Spring MVC and designed the Data Migration from various External systems.
* Developed Hibernate DAO Accessor Classes using Spring JDBC Template and implemented various cross-module functionalities using Spring AOP.
* Integrated Struts with Spring by delegating Struts action management to Spring framework.
* Developed scheduler jobs in Java and executed using UNIX scripts.
* Solved defects in the Java J2EE application running on a JBOSS J2EEweb server.
* Developed the application under JEE architecture using JSP, Spring, JSF, JMS, JDBC and iBATIS Data mapper.
* Built several modules to deal with vast amounts of data flowing through multiple Hadoop clusters, using Java-based map-reduce.
* Developed web based application using Django framework with Python concepts.
* Placed data into JSON files using Python to test Django module.
* Analyzed and improved application efficiency by optimizing queries and caching contents for Django.
* Designed and developed application based on JSF framework, Spring Core and Spring ORM.
* Deployed Microservices in Mesos cluster in AWS using Jenkins, Marathon, and Chronos.
* Developed capability for interactive data analysis and visualization by leveraging Python APIs to integrate Blender 3D for visualization, NetworkX and Pandas for data analysis, and Django CMS for model definition and data persistence.
* 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.
* Developed web based application using Django framework with Python concepts.
* Develop new Dockerized internal shipping API microservice using Python, Flask and Pytest.
* Supported test portal and added new services made in Django/Python/Celery
* Worked with Tornado, Robot test framework, Continuous Integration environment (Jenkins) and SDN.
* Developed mechanism for interfacing Python to MariaDB/MySQL via SQLAlchemy.
* Used Backbone.js to structure JavaScript code in an MVC (Model View Controller).
* Exposed Restful web services using JAX-RS and implemented Angular promises to handle asynchronous communication with the Restful API.
* Used React.JS and Redux for data binding, DOM manipulation, easy unit testing.
* Worked on different data formats such as JSON, XML and performed machine learning algorithms in Python.
* Collaborated with a team of data scientists, statisticians, computer scientists, and subject matter experts to solve problems using data science approaches, techniques, and methods.
* Developed sophisticated statistical models including least squares (linear and non-linear), principal components and machine learning (TensorFlow). Used JSON Web Token for Authentication and Bcrypt for hashing
* Used LSTM to predict sentiment of movie reviews using PyTorch.
* Used scikit-learn framework to deign supervised and unsupervised machine learning algorithms.
* Redesigned and Redeveloped entire modules using tech stack like HTML5, CSS3, ES6, React, Node and GraphQL.
* Extensively used PL/SQL features like nested table, V array and Bulk collect for high performance of stored procedures.
* Responsible in developing single page application using Angular.JS, UI-Router and PostgreSQL.
* Designed, built, and deployed a multitude of modules utilizing all the AWS stacks including S3, RDS, DynamoDB.
* Worked with various Python Integrated Development Environments like Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.
* Used GIT repository for software configuration management and version control.
* Used Selenium to apply automated testing and developed custom Selenium extensions for testing components.
* Worked in Agile environment with active Scrum participation.
* Built servers using AWS to import necessary volumes, launch EC2 instances, auto-scale, load balance route S3 and SNS as per the architecture.
* Executed Machine Learning with TensorFlow on Google Cloud Platform specialization.
* Developed UI automation framework for Angular.JS application using Maven to run test suites on multiple environments based on user specified external file.
* Performed Python application deployment using JBoss application server on Windows and Linux.
* Created branches and maintained different versions of chef Recipes in distributed Version Control tool like Git.
* Implemented horizontal autoscaler, pod autoscaling and demon sets in kubernetes and tested it with artilary to check compatibility with the nodes or pods.

Python, Django, Microservices, Java, J2EE, DAO, Spring MVC, Hibernate, Pandas, Flask, Python API, Celery, Tordo, SQLAlchemy, JavaScript, HTML, CSS3, Angular, React.JS, ML, TensorFlow, PyTorch, Scikit-Learn, NumPy, Es6, Typescript, JWT, MySQL, PostgreSQL, REST, PyCharm, Git, Selenium, Agile, AWS EC2, S3, GCP, JSON, Linux, Jenkins, Kubernetes, Docker

Anthem Inc, Indianapolis, IN /// **Sr.** **FullStack Developer** /// June-2013 to April-2015

*Anthem, Inc. is an American health insurance company working to transform health care with trusted and caring solutions.*

**My Account application:** It allows Anthem customers to access their account information online. Within the application users can view account information, update their contact information, request information, and make payments online.

* Debugged the failure issues by capturing the array and register dumps using Python scripts.
* Used hierarchy form representation of system by defining the components, subcomponents using Python and developed set of library functions over the system based on the user needs.
* Development of several Python APIs that works both in Linux and Windows and maintaining them using the revision control SVN.
* Used Python scripts to update the content in database and manipulate files.
* Involved in tuning and optimization of SQL statements and Managed Backend using Python and MVC framework Django.
* Developed views and templates with Python and Django's view controller.
* Implemented creational, structural and behavioral Core Java and JEE design patterns.
* Created JAVA API's, Spring configuration changes, Oracle SQLs/procedures, JDBC template.
* Created Selenium web-driver automation scripts using JAVA to validate functionality on various browsers.
* Worked directly with stakeholders to develop small- and large-scale module using Python and Django.
* Developed framework for lightweight REST web services (using Pyramid, Spring MVC 3.0) as well as using JAX-WS, JAXB for SOAP web services.
* Used Bootstrap.JS and Angular UI for creating rich, Responsive UI Screens for varying screen sizes and devices.
* Developed source code in eclipse oxygen using Java, J2EE, and Spring MVC architecture.
* Used SVN for versioning control system and tortoise SVN as its Client.
* Used JUnit to write unit test and integration test and used Mockito to mock objects and connections.
* Developed Automation Scripts for Regression using Selenium WebDriver, TestNG and Java.
* Used Test Driven Development (TDD) as part of Agile process.
* Used AWS S3 to store code bundles to deploy onto EC2 Instances.
* Configured NoSQL database and DynamoDB for providing single-digit millisecond latency, fast DB service for application.
* Developed build scripts using MAVEN and GRADLE as the build tools for the creation of build artifacts like war or jar's.
* Used Amazon Web Services for efficient storage of XML documents and fast access.
* Worked on AJAX framework to transform Datasets and Data tables into HTTP serializable JSON.
* Worked with Atlassian tools - Git/Stash, JIRA and Crucible to store and share the application code.
* Migrated build logs output from Hipchat to Slack.

Python, Django, ORM, JavaScript, Java, HTML5, CSS3, Angular.JS, Ruby, Bootstrap.JS, jQuery, Oracle, REST, Eclipse, Git, SVN, Selenium, Agile, AWS, JSON , XML, JIRA, Linux, Hipchat, Jenkins

US Cellular, Chicago, IL /// **Web Application Developer** /// July-2011 to May-2013

*U.S. Cellular is the fifth-largest full-service wireless carrier in the United States, providing national network coverage and industry-leading innovations.*

**"Online Shop Portal"-** The enterprise e-commerce portal consist various modules like Phones, Plans, Accessories, Offers, Home Solutions, and Tablets. User can select the item and online order through the app.

* Designed database Model, Views and API's using Python for interactive web based solutions.
* Used Python scripts to update the content in database and manipulate files.
* Developed web based application using Django framework with python concepts.
* Generated Python Django forms to maintain the record of online users. Used Django API's to access the database.
* Worked on server side applications with Django using Python while using libraries like Beautiful Soup, matplotlib, Scipy, NumPy and built efficient Node.js backend for client side.
* Generated Java/J2EE Program in sync with various diagrams such as class diagrams, sequence diagrams etc.
* Responsible for the implementation of Web Design based on Javascript, CSS3, HTML5, and Bootstrap Front-End Framework.
* Used Ruby and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Developed many features for dashboard using Ruby on Rails, Bootstrap, CSS and JavaScript. Used JSON web token to ensure secure transmission of information.
* Implemented user interface guidelines and standards throughout the development and maintenance of the modules using the HTML, CSS, JavaScript and jQuery and Angular JS.
* Wrote and executed various MYSQL database queries from python using Python-MySQL connector and MySQL dB package.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Developed SOA based enterprise application in NetBeans using popular Java Web-Services technology including JAX-RS, AWS and RESTful Web-services.
* Worked on JIRA for tracking and updating the JIRA tickets and per assigned.
* Migrated build logs output from Hipchat to Slack.
* Performed scripting in multiple languages on UNIX, LINUX using Python and Shell script.

Python, Java, Django, JavaScript, HTML, CSS, Ruby, MySQL, Rest, Soap, Netbeans, WAS, CVS, SVN, Junit, Waterfall, AWS, EC2, S3, Ant, XML, JIRA, Unix, Hipchat

Amex, New York, NY /// **Web Developer** /// Oct- 2009 to June-2011

*The American Express Company, also known as Amex, is an American multinational financial services corporation. It primarily issues credit cards, processes payments, and provides travel-related services.*

**Credit Card-** It offers exciting privileges across shopping, dining, travel, entertainment and car rental privileges.

It also offers '24X7 Platinum Assist', 'Zero Lost Card Liability', 'Online Fraud Protection Guarantee' and 'Online Services'.

* Worked on JavaScript for developing and maintaining graphs.
* Developed SQL queries and stored procedures for retrieving data.

HTML, Java, Spring, Javascript, Ext.JS