**CHINTAN KUMAR**

**LEAD PYTHON DEVELOPER   
Email –** [**Kumarchintan1203@gmail.com**](mailto:Kumarchintan1203@gmail.com) **| Contact: (337) 441-2397**

* A decent and creative professional with 12+ years of experience as a **Python** **Developer**, proficient coder in multiple languages and environments including **Python, JAVA, REST API 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.
* Experience working on Frameworks like **Bootstrap, Foundation, Angular.js, React.js, Node.js and Media Queries.**
* Worked on applications and developed them with **XML, JSON, and XSL (PHP, Django, Python, Rails)**
* Strong experience in working with **Ansible, Docker containers.**
* Experienced in **React Js** and working with **React Flux architecture.** Expertise in building user interface/SPA with **ReactJS along with React-router.**
* Cleaned data and processed third party spending data into manoeuvrable deliverables within specific formats with **Excel macros** and **python libraries.**
* 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** , **Jupiter Notebook** .
* Experienced in **web applications development** using **Django/Python** using **HTML/CSS** for server-side rendered applications.
* Experience in developing web applications implementing Model View Controller architecture using **Django, Flask, Tornado**, and **Pyramid Python** web application frameworks.
* Experience and good knowledge on Virtualization and Cloud Computing (Private, Public and Hybrid) such as VMware/EMC (Cloud Foundry), **AWS (EC2, ELB, S3, IAM, RDS, Lambda, Cloud Formation), OpenStack (Nova, Neutron, Keystone, Cinder, Swift).**
* Experienced in implementing Cloud solutions in **AWS (EC2, EMR. S3, CloudWatch, Lambda, CloudTrail, SNS, SES, EBS, CLI, VPC, ELB, IAM, Redshift, RDS, Route53), Google Cloud, Microsoft Azure.**
* Auto spawning of servers on the Amazon Web Services (AWS) platform using chef configuration management tools.
* 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**.
* Exceptionally solid background in composing **API's** along with **Web Services** over **Python**.
* Experience in working with **Python ORM** Libraries including **Django ORM, SQLAlchemy**.
* Experience in implementing with server-side technologies with restful **API**and **MVC design** patterns with **node JS** and **Django framework**.
* Good Knowledge in **Amazon AWS** **concepts** like **EMR and EC2 web services** which provides fast and efficient processing of **Big Data**.
* Proficient in **Object oriented design** experience, with extensive experience of **Python-C/C++** binding using **Boost Python**and **Python C types**.
* Excellent **Debugging, Problem Solving, Optimization**and**Testing Skills using GitLab**
* Experience in Python Development and **Scientific Programming**, and using **NumPy** and **Pandas** in Python for **Data Manipulation**.
* Experienced in using python libraries like **BeautifulSoup, NumPy, SciPy, matplotlib, Python-twitter, NetworkX, urllib2, MySQLdb** for database connectivity and IDEs - **Sublime Text, Spyder, PyCharm**
* Experience in using Scikit-Learn and Stats models in **Python** for **Machine Learning** and **Data Mining**.
* Experienced in **WAMP (Windows, Apache, MYSQL, and Python)** and LAMP **(Linux, Apache, MySQL, and Python)** Architecture and Wrote Automation test cases using Selenium Web Driver, JUnit, Maven, and spring.
* Good knowledge in **Software Development Life Cycle (SDLC)** and **Software Testing Life Cycle (STLC)**.
* Experienced in **agile** and **waterfall** methodologies with high quality deliverables delivered on-time.
* Experience with **Test Driven Development (TDD), Agile, Scrum** and **Waterfall** methodologies. Used ticketing systems like **JIRA**, **Bugzilla** and other proprietary tools.

**WORK EXPERIENCE**

**Lead Python Developer**

**Viatris – United States Jan 2021- Present**

* Design and development of user interfaces and client displays using Python, JavaScript, JSP, CSS and troubleshoot various issues in Python code and fix them with code enhancements- code used various python libraries such as PyJamas and Jython.
* As Engineer, I am responsible for design, build, monitor, and enhance services and production environments.
* Led a team of Python developers to design and develop software solutions for the pharmaceutical industry using Python, Django, and SQL.
* Involved in Designing Development and maintenance Python-based applications for clinical trials management, drug discovery, and drug safety monitoring.
* Worked on Designing and implementing data pipelines using Python libraries such as Pandas, NumPy, and SciPy to process and analyze large datasets of chemical compounds and biological data.
* Involved in Building RESTful APIs using Django and Flask frameworks to integrate with third-party systems and facilitate data exchange between applications.
* Worked with stakeholders and matter experts to gather requirements and ensure that software solutions met regulatory and compliance standards such as FDA, GxP, and HIPAA.
* Implemented automated testing using Python testing frameworks such as PyTest and Unit test to ensure code quality and catch defects early in the development process.
* Developed serverless applications using AWS Lambda and other AWS services. Created and managed Lambda functions, API Gateway, S3 buckets, and IAM roles and policies.
* Worked with various programming languages such as Python, Node.js, and Java to write Lambda functions. Optimized Lambda functions to improve performance and reduce costs.
* Developed and maintained cloud-based solutions using Amazon Web Services (AWS) and other cloud platforms to ensure scalability, availability, and disaster recovery for applications.
* Collaborated with cross-functional teams including data scientists, bioinformaticians, and IT professionals to deliver innovative solutions for drug discovery and development.
* Involved in Contribution to the open-source community by developing and releasing Python packages related to the pharmaceutical industry, such as cheminformatics and bioinformatics libraries.
* Involved in designing and implementing machine learning models using Scikit-Learn and TensorFlow to build predictive models for drug discovery, drug safety, and clinical trial outcomes.
* Worked in collaboration with cross-functional teams to develop and implement natural language processing (NLP) solutions for analysing text data in clinical notes, scientific literature, and adverse event reports.
* Worked in an Agile-Scrum environment with continuous iteration of development and testing throughout the software development life cycle of the project.
* Worked on Django REST framework as it is much faster to read data and it can be cached. REST allows more formats than SOAP and gives better support for browser clients as it supports JSON.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Worked on Django ORM API to create and insert data into the tables and access the database.
* Using the Django Framework model, implemented MVC architecture and developed web applications with superb interfaces.
* Developed single page applications using React Redux architecture, ES6, web pack and grunt.
* Developed various screens for the front end using ReactJS and used various predefined components from NPM (Node Package Manager). Involved in creating a reusable component using React JS for DOM manipulation.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Created templates for page rendering and Django views for the business logic.
* Used AWS Cloud platform and its features which include Lambda, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation, Auto scaling, CloudFront, S3, and Route53.
* Written Cloud formation templates and deployed AWS resourcing. Build application and database servers using AWS EC2 and create AMIs also using RDS for Oracle DB.
* Used ETL tools such as snap logic, Using S3 Data pipeline to move data to AWS Redshift.
* Used Amazon Cloud Watch to monitor AWS services and Amazon CloudWatch logs to monitor applications.
* Developed API for using AWS Lambda to manage the servers and run the code in AWS.
* AWS Cloud management and responsible for code build, release and configuration on Amazon EC2.
* Used Django REST framework and integrated new and existing API's endpoints.
* AWS Cloud management and responsible for code build, release and configuration on Amazon EC2.
* Analysed the SQL scripts and designed the solution to implement using PySpark.
* Rewrite existing Python/Flask module to deliver a certain format of data. Created script in python for calling REST APIs.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQLAlchemy and PostgreSQL.
* Designed and developed communication between client and server using Secured Web services such as Django-rest-framework.
* For reading the data faster integrated Redis-Cache with the Django-rest-framework.
* Involved in developing object-oriented JavaScript and experienced with AJAX, JSON, HTML5, React.js, Angular.js, Node.js and CSS3.
* Used PySpark to expose Spark API to Python. Used Git and Jira for code submissions and review processes.
* Developed web application using MVC architecture with the help of Django framework.
* Used Django admin and created superusers, updated tables in the database. Developed numerical algorithms and data analysis tools using NumPy and SciPy.
* Designed and implemented scientific computing applications using NumPy and SciPy.
* Developed machine learning models and data pre-processing pipelines using NumPy and SciPy. Built custom data structures and optimized algorithms using NumPy and SciPy.
* Develop framework for converting existing PowerCenter mappings and to PySpark (Python and Spark) Jobs.
* Developed and tested many features for dashboard using Python, Bootstrap, CSS, and JavaScript.
* Query and set up employee registration and login using Python PostgreSQL
* Managed code versioning with GitHub and deployment to staging and production servers.
* Used Django APIs for database access and worked on databases like MySQL, Postgres.

**Lead Python Developer**

**Wealth Enhancement Group - United States                       March 2018 – Dec 2020**

* Developed a portal to manage entities in a content management system using Python and Django.
* Worked on Django for web application development. Worked in developing Python/Django based web application, MySQL DB and integrations with 3rd party email, messaging, Storage services.
* Our DevOps solution includes the functions of build, deploy, automation test control, generating reports and notification services with an end goal of continuous integration in a data center and Cloud ( AWS environment).
* Closely worked with Application using React.JS and Node.js libraries NPM, gulp directories to generate desired view and flux to root the URL's properly.
* Utilized NumPy's built-in linear algebra functions to solve systems of linear equations. Used NumPy's Fourier transform functions for signal processing and image analysis.
* Implemented numerical integration and differentiation methods using SciPy. Used SciPy's optimization functions to solve nonlinear optimization problems.
* Developed various screens for the front end using React JS and used various predefined components from NPM (Node Package Manager) and Redux libraries.
* Created git repos and Jenkins jobs for the build and deployment of Microservices in Docker Container
* Implemented a production ready, load balanced, highly available , fault tolerant Kubernetes infrastructure.
* Designed and implemented serverless architectures using AWS Lambda, AWS API Gateway, and other services.
* Involved with PySpark and Big Data technologies such as Hadoop Ecosystem, Spark SQL, and Kafka
* Debugged and resolved issues with Lambda functions and their integrations with other AWS services.
* Created a private cloud using Kubernetes that supports DEV, TEST, and PROD environments.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Worked on Designing and implementing algorithmic trading systems and quantitative finance models using Python libraries like NumPy, Pandas, and SciPy to analyse financial data and generate trading signals.
* Involved in developing financial analytics tools for risk management, portfolio optimization, and asset pricing using Python and machine learning libraries like Scikit-Learn and TensorFlow to perform predictive modelling and data analysis.
* Worked on Development of RESTful APIs using Flask and Django to integrate Python-based financial models and analytics with web and mobile applications, allowing users to interact with financial data and analytics in real-time.
* Conducted code reviews and involved in providing technical guidance to developers in order to ensure adherence to coding standards, best practices, and industry regulations.
* Performed tuning and optimization of existing software solutions to improve scalability, maintainability, and performance, using tools like profiling and load testing.
* Worked on Development of continuous integration and continuous deployment (CI/CD) pipelines using Jenkins, GitLab, and other tools to automate software delivery and improve development efficiency.
* Involved in technical discussions and presentations on technical solutions to stakeholders, including IT leadership, business partners, and regulatory agencies, to communicate the technical details of financial software solutions
* Performed AWS Cloud administration managing EC2 instances, S3, SES and SNS services.
* Created Buckets in AWS and stored files. Enabled Versioning and security for files stored.
* Work with a team to build out automation templates in Fugue or AWS Cloud Formation in support of the managed services platform.
* Worked with deployment and management of AWS services - including but not limited to: VPC, Route 53, ELB, EBS, EC2, S3.
* Implemented PySpark jobs for feature engineering and data pre-processing in machine learning pipelines.
* Created Python Django forms to record data of online users and used PyTest for writing test cases.
* Using Amazon EC2 command line interface along with Bash/Python to automate repetitive work.
* Used spring configuration server for centralized configuration and Splunk for centralized logging. Used Concourse and Jenkins for Microservices deployment.
* Designed and developed communication between client and server using Secured Web services such as Django-rest-framework.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQLAlchemy and PostgreSQL.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Work with a team to build out automation templates in Fugue or AWS Cloud Formation in support of the managed services platform.
* Proficient with deployment and management of AWS services - including but not limited to: VPC, Route 53, ELB, EBS, EC2, S3.
* For reading the data faster integrated Redis-Cache with the Django-rest-framework.
* Performed S3 buckets creation, and policies on the IAM role based policies and customizing the JSON template.
* Launching Confidential EC2 Cloud Instances using Confidential Web Services (Linux/Ubuntu) and configuring launched instances with respect to specific applications.
* Worked on AWS (Amazon Web Services) services like EC2, S3, Glacier, Elastic Load Balancer (ELB), RDS, SNS, SWF, Cloud watch, Route53 and Lambda.
* Performed AWS Cloud administration managing EC2 instances, S3, SES and SNS services.
* Created Buckets in AWS and stored files. Enabled Versioning and security for files stored.
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services. Performed testing using Django's Test Module.
* Worked on conducting performance tuning and optimization of PySpark applications by analyzing execution plans and identifying bottlenecks.
* Responsible for debugging and troubleshooting the web application. Successfully migrated all the data to the database while the site was in production.
* Worked on using Git, GitHub, and Amazon EC2 and deployment using Heroku.
* Used extracted data for analysis and carried out various mathematical operations for calculation purposes using python libraries - NumPy, SciPy.
* Built various graphs for business decision making using Python matplotlib library.

**Senior Python Full Stack Developer**

**Alight Solutions – United States Oct 2014 - Feb 2018**

* Expanded website functionality, using Flask framework in Python to control the web application logic
* Built automation script using Confidential API and Python BeautifulSoup to scrape data from social networks and other websites using Python.
* Design, develop and test HTML5, CSS3, Bootstrap, JavaScript, jQuery and ReactJS that meets accessibility and web browser standards for website.
* Worked on responsive design and developed a single isomorphic responsive website that could be served to desktop, Tablets and mobile users using React JS.
* Developed automated tests for Lambda functions and ensured their reliability and quality.
* Built custom deployment pipelines for Lambda functions using AWS Code Pipeline.
* Configured and monitored Lambda functions using AWS CloudWatch and other monitoring tools.
* Implemented the Drag and Drop functionality using React-Draggable.
* Implemented Redux along with react for states maintain. Created Actions and Reducers to pass stateless data around components.
* Worked with sparse matrices and sparse linear algebra functions in SciPy. Used SciPy's interpolation functions for data smoothing and curve fitting. Utilized SciPy's signal processing functions for filtering and noise reduction.
* Developed custom image processing algorithms using NumPy and SciPy. Used NumPy and SciPy to analyse and visualize data from various sources.
* Developed certain features of the application functionality i.e., CRUD (Create, read, update, delete) features using Express JS, React Js, Node JS and Firebase.
* Utilized Bootstrap and to develop a reactive website from a static JavaScript, React Js, Node JS, Bootstrap, Semantic UI, RESTful API, jQuery existing code base.
* Designed front end and backend of the application using Python on Django Web Framework.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
* Developed backend services and created many API's using Python Programming Language and SQL.
* Involved in developing a video calling application using python web-sockets.
* 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.

**Python Developer**

**UMB Bank– United States May 2012 - Sept 2014**

* Wrote Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL database.
* Implemented the application's front-end pages using HTML, CSS and JavaScript.
* Designed and developed components using Python with Django framework. Implemented code in python to retrieve and manipulate data.
* Ticketing System and Unified Ticketing System using python.
* Develop consumer based features and applications using Python, Django, HTML, behaviour Driven Development (BDD) and pair based programming.
* Used the Django Framework to develop the application. Used Django APIs for database access.
* Developed shopping cart for Library and integrated web services to access the payment.
* 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.)
* Developed custom data analysis tools and workflows using NumPy and SciPy. Implemented parallel processing using NumPy and SciPy to speed up computation.
* Contributed to open-source projects related to NumPy and SciPy. Provided technical guidance and mentorship to junior developers on the use of NumPy and SciPy for scientific computing and data analysis.
* Used python to extract weekly availability information from XML files. Built application logic using Python.
* Expertise in client scripting language and server side scripting languages like JavaScript, JQuery, JSON, DOJO, bootstrap, React Js, Node.js, Angular.js, backbone.js, Require.js.

**Software Developer  
BSM Healthcare – United States Aug 2009 – April 2012**

* Developed a module to build Django ORM queries that can pre-load data to greatly reduce the number of database queries needed to retrieve the same amount of data.
* Worked extensively on the Frontend with Bootstrap, JavaScript, and JQuery to optimize the user experience.
* Implemented SQLAlchemy as ORM mapping tool for complete access and Wrote SQL queries and maintained PostgreSQL RDBMS in the local development environment.
* Developed application for online traffic using Django using RESTful API.
* Ensured high quality data collection , storage and maintaining the integrity of the data. Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript. Designed and developed the data management system using MySQL.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL-Alchemy and PostgreSQL.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Worked on Django Database API's to access database objects. Handled all the client side validation using JavaScript.
* Built reusable and customizable components for the new website using React.JS and React-Routes to create a single page web application.
* Responsible for debugging and troubleshooting the web application.

**EDUCATION DETAILS**

**Bachelors in Computer Science**

**Mohanlal Sukhadia University,**

**Udaipur, 2003-2007**