**Praveen Kumar Subramani**

**Full Stack Python Developer**

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**Professional Summary:**

* Around 12 years of experience as a Python Developer, proficient coder in multiple languages and environments including Python, PHP, GO, ReactJS, REST API, AWS and SQL.
* Wrote python scripts to parse XML documents and load the data in a database and developed web-based applications using Python, CSS, and HTML.
* Worked on applications and developed them with XML, JSON, and XSL ( PHP, Python).
* Experienced in developing Web Services with Python programming language.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and SQL databases.
* 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 , PHP , XML , CSS3 , HTML , DHTML , JavaScript and jQuery .
* Experienced in working with various Python IDEs using PyCharm, VSCode, PHPStrom, DataGrip and WebStrom.
* Experienced in web applications development using Python Backend services and PHP/React using HTML5/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.
* Utilized React Hooks (useState, useEffect, useContext, etc.) to manage state and side effects in functional components, improving code maintainability and performance.
* Integrated Redux for state management to handle complex application states, reducing the need for prop drilling and improving application scalability.
* Designed and implemented reusable, modular React components using JSX to maintain clean and maintainable code.
* Implemented complex database queries using SQLAlchemy ORM to retrieve and manipulate data.
* Implemented routing with React Router for smooth client-side navigation and deep linking within the application.
* Optimized React components using React.memo, lazy loading, and Suspense to improve page load speed and reduce bundle size.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Experienced in Requirement gathering, Use Case development, Business Process flow, Business Process Modeling.
* Extensively used UML to develop various use cases, class diagrams, and sequence diagrams.
* Well versed in design and development of presentation layers for web applications using technologies like HTML5, CSS3, JavaScript, JQuery, AJAX, AngularJS, Bootstrap, JSON, and XML.
* Exceptionally solid background in composing API 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.
* Working on new project for EA by using React, TypeScript, Emotion, Socket.io.
* Employed WebSockets using Socket.io to enable real - time bi-directional video streaming and chatting
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Extensive experience in List Comprehensions and Python inbuilt functions such as Map, Filter and Lambda.
* Experience in building frameworks and automating complex workflows using Python for Test Automation.
* Hands-on experience in using NoSQL libraries like MongoDB, Redis, and relational databases like Oracle, SQLite, PostgreSQL, and MYSQL databases.
* Worked on UNIX shell scripts for business processes and loading data from different interfaces to HDFS.
* Good Knowledge in Amazon AWS concepts like EMR and EC2 web services which provides fast and efficient processing of Big Data.
* 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 with SQL Server Management Studio, SQL Developer, Toad, and MySQL GUI Tool.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.
* Possess good interpersonal, analytical presentation skills, ability to work in self-managed and team environments.

**Certifications:**

* **AWS Certified Cloud Practitioner – 10/2024**

Fundamental understanding of AWS Cloud, including services, pricing models, and security features.

**Educational Qualifications:**

* Bachelor’s in Computer Science and Engineering – Anna University - 2012.

**Technical Skills:**

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| Python Libraries | Report Lab, NumPy, SciPy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup, Pickle, Pandas, PyPI, PySpark, Pygit. |
| Programming Skills | Python, PHP andShell Script |
| Web Technologies | ReactJS,HTML5, CSS3, JavaScript, JSON, jQuery, AJAX and Bootstrap. |
| IDE’s | PyCharm, Sublime, Eclipse, Spyder and NetBeans, Atom, Sublime Text, VSCode. |
| Database | Oracle SQL, SQLite, MySQL, SQL. |
| Operating Systems | LINUX, UNIX, WINDOWS & MAC. |
| Cloud Technology | AWS (SNS, Dynamo DB, Cloud Watch) |
| Web Services | Nginx, Apache, AWS, Amazon EC2. |
| Network Protocols | TCP/IP, HTTP, DHCP, SNMP, SMPT. |
| Version Control Tools | GitLab, GitHub, and SVN. |
| Development Process | Waterfall, Agile, and Scrum. |
| Bug Tracking Tool | JIRA. |

**Professional Experience**

**Equifax Inc April 2023 – Present**

**Sr. Python Developer**

**Responsibilities:**

* Worked on integrating python with Web development tools and Web Services.
* Wrote and executed various MYSQL database queries from python using Python MySQL connector and MySQL dB package.
* Developed Python based Auth Microservice to issue and validate JWT token for the API Authorization.
* Developed PySpark programs, created the data frames, and worked on transformations.
* Wrote scripts in Python for extracting data from HTML files.
* Implemented Web Scrapping using headless browser and ReactJS.
* Managing IAM roles, SQS, SNS and S3 bucket configurations using Terraform.
* Utilized React Hooks (useState, useEffect, useContext, etc.) to manage state and side effects in functional components, improving code maintainability and performance.
* Integrated Redux for state management to handle complex application states, reducing the need for prop drilling and improving application scalability.
* Designed and implemented reusable, modular React components using JSX to maintain clean and maintainable code.
* Implemented routing with React Router for smooth client-side navigation and deep linking within the application.
* Optimized React components using React.memo, lazy loading, and Suspense to improve page load speed and reduce bundle size.
* Proficient in using SQLAlchemy ORM to map Python classes to relational database tables and perform CRUD (Create, Read, Update, Delete) operations.
* Implemented complex database queries using SQLAlchemy ORM to retrieve and manipulate data.
* Utilize PyUnit, the Python Unit test framework, for all Python applications.
* Wrote python scripts to parse XML documents and load the data in the database.
* Utilized OAuth and JWT tokens for user authentication and secure data transmission.
* Used ECMAScript 6, ReactJS, Axios, Node, and Web-Pack to create a SPA.
* Proficient in developing Web Services (SOAP, RESTful) in Python using XML, and JSON.
* Created a real-time dashboard for Executives, utilizing Log stash, Elastic Search, Kibana & Redis.
* Implemented Restful web service to interact with Redis Cache framework.
* Worked on developing Restful endpoints to cache application-specific data in in-memory data clusters like REDIS and also exposed them with Restful endpoints.
* Worked with NoSQL Databases like Apache Cassandra, and Mongo DB.
* Implemented AWS solutions using Dynamo DB, EBS, Elastic Load Balancer, and Auto scaling groups.
* Wrote Scala and python scripts as required for the spark engine.
* Implemented REST APIs using Python and Django frameworks.
* Developed web-based applications using Python, Django, XML, CSS, HTML, JavaScript, AngularJS, and jQuery.
* Developed a Spark job in Java that indexes data into Elastic Search from external Hive tables which are in HDFS.
* Developed code in Java that creates mapping in Elastic Search even before data is indexed.

**Byzero TechnologiesJune 2013 – Feb 2023**

**Sr. Python Developer**

**Client: PSTS Pte (Singapore) – Payroll Systems**

**Responsibilities:**

* Involved in the project life cycle including design, development and implementation, and verification and validation
* Developed the application front end using HTML, CSS, JavaScript, Bootstrap, and Laravel framework.
* Extensively utilized Python frameworks like Django, Flask, Sanic, PyUnit, and libraries like matplotlib.
* Designed applications implementing MVC architecture in Pyramid, and Zopeframeworks.
* Integrated RESTful APIs and WebSocket for real-time data and communication with back-end systems, ensuring efficient data exchange.
* Integrated SQLAlchemy ORM with popular Python Djangoweb framework for seamless data interaction in web applications.
* Managed API responses and handled error states gracefully to ensure a seamless user experience.
* Designed SPA (Single page applications) in Flux architecture using React.js.
* Worked on WAMP (Windows, Apache, MYSQL, Python/PHP) and LAMP (Linux, Apache, MySQL, Python /PHP) Architecture.
* Installed and configured the development environment using Web-logic on Windows
* Developed data-accessible web applications for employee access using HTML5, CSS3, JavaScript, and Django.
* Fetched Twitter feeds for certain important keywords using the python-twitter library (Tweepy), Used JSON to store the Twitter data which was further represented using matplotlib visualization, and generated graphical reports for business decisions using the matplotlib library.
* Participate in the design, build, and deployment of NoSQL implementations like MongoDB.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Worked on the creation of custom Docker container images, tagging and pushing the images.
* Implemented OAuth2.0 to enable social media login and session handling.
* Created Middleware SDK for Paypal Payment gateway integration using PayPal PHP SDK.
* Integrated intothe AWS platform for large-scale computing workloads.
* Extensive code reviewing using GitHub pull requests, improved code quality, and conducted meetings among Team.
* Wrote unit and integration tests for database operations using pytest and SQLAlchemy’s testing utilities.
* Conducting thorough code reviews across the team to ensure high-quality standards and continuously enhancing the team's codebase.
* Enhanced by adding Python XML SOAP request/response handlers to add accounts, modify trades, and security updates.
* Recording of Scripts Web Services HTML using Vugen and SoapUI and script validation through co-correlations, parameterizations, and other methods.
* Having knowledge in Amazon EC2, S3, VPC, RDS, Elastic Load Balancing, Autoscaling, IAM, SQS, SWF, SNS, Security Groups, Lambda, Cloud Watch services
* Worked with RDBMS like Oracle 11g/10i and MySQL databases to query and read data.
* Developed various Python scripts to find vulnerabilities with SQL Queries by doing SQL injection, permission checks, and performance analysis.
* Created backend database T-SQL stored procedures and SSRS Reports.
* Performed Unit testing, Integration Testing, GUI testing using PyTest, and web application testing using Selenium Python bindings.

**Client: Hyperband – ISP Management**

**Responsibilities:**

* A lead resource in developing CRM application for an internet provider scratch using Laravel for high reliability and multi-user group login.
* Optimized performance using query caching, database indexing, Eloquent eager loading, and Laravel caching with Redis and Memcached.
* Deployed Python-based applications to cloud platforms such as AWS and Azure, utilizing services like EC2, Lambda, S3, and RDS
* Implemented asset versioning, minification, and lazy loading to improve page load times.
* Experience with PHPUnit for unit testing Laravel applications, ensuring stable code with a test-driven approach.
* Proficient with Laravel queues and Job Dispatching to handle background processes such as email notifications, image processing, etc.
* Developed an application that can manage customers and franchises with internet usage tracking and billing for the customers and franchises.
* Query and set up customer registration and login using Python.
* Experience in handling documented databases and video files for online management systems during creating online learning management solutions.
* Performed troubleshooting, fixed, and deployed many Python bug fixes for Learning Management System
* Used Python Flask framework to build modular & maintainable applications.
* Developed complex SQL queries for testing the database functionality.
* Used UNIX server for application deployment and configuration.
* 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.
* Worked on python scripts to parse XML documents and load the data intothe database
* Developed RESTful APIs and backend services using Django and Flask, adhering to best practices in API design and documentation

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**Raison Automation – eMonitoring**

**Responsibilities:**

* + Used jQuery, HTML5, and CSS3 for the frontend development.
  + Created Test cases for the security testing and added unit test cases while developing the application.
  + Employed ngModel for binding form inputs with the view and model for a seamless user interaction.
  + Assigning Tasks and supporting team members in the application development.
  + Client Interaction for the requirement analysis and participated in the demo sessions.
  + Extensive experience in developing and maintaining web applications using Laravel 5.x, 6.x, 7.x, and 8.x.
  + Proficient in Laravel's MVC architecture and following the best coding practices for structured, maintainable code.
  + Conducted competitive research for the application and created the development plans.
  + Used PHPStan for the Code quality and standard checks and conducted the security testing, Unit, and Integration testing for the application.
  + Developed Dynamic Dashboards as per the user role and customer.
  + Developed Dynamic Client application space creation as per Client addition by the Admin user to maintain scalability by creating dynamic Databases.