**Resume**

**Rachit Kumar**

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**Professional Summary:**

* Over **6+** Years of experience in Analysis, Design, Development, Deployment using various technologies.
* Extensive experience in developing Insurance, Enterprise Industry’s web and windows-based applications using **Python, Django Rest Framework, Java, SpringBoot, JavaScript, Web API, AJAX,** and **Microsoft SQL Server**
* Extensive experience in **MySQL** in writing complex SQL Statements and Stored Procedures, View, Functions.
* Experience in Agile Development Process for varied requirements.
* Hands on knowledge in **Jenkins** for CI/CD pipelines.
* Hands on experience in **Django Rest Framework** for developing Rest-API's.
* Hands on experience **on JavaScript, JQuery, JSON, AJAX** .
* Working experience with **Django ORM** tools like Entity Framework
* Hands on experience in **Html, CSS** and **Bootstrap**.
* Excellent communication skills, problem solving and inter-personal skills

**Education:**

* Bachelor in Computer Application(**BCA**)

**Certification:**

* Certified in **Google Cloud Professional Cloud Developer**.
* Certified in **Google Cloud Certified Associate Cloud Engineer**.

**Technical Skills:**

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| **Programming Languages** | Python, Java and MySQL |
| **Framework**  **Technologies** | Django, SpringBoot, Pytest |
| **Scripting Languages** | HTML, AJAX, JavaScript and jQuery, Bash |
| **RDBMS** | MySQL, Postgres |
| **Third Party Tools** | Jenkins, JIRA, Confluence, VersionOne |
| **Version Control** | Git Control |
| **Operating System** | Windows 7 and Windows 10, Ubuntu 18, Centos. |
| **Cloud Platforms & Containerization** | Google Cloud Platform (GCP), Google App Engine  Docker, Docker Compose |

**Professional Experience:**

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| **Maven Wave an Eviden business(atos)** | **Oct. 2021– Till Now** |
| **Technical Specialist- Python** |  |

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| |  |  | | --- | --- | | **1. Project : Optimizely - Python Migration** |  | | **Nov 2021 – Mar 2023** |

Optimizely is an American company that provides digital experience platform software as a service. Optimizely provides A/B testing and multivariate testing tools, website personalization, and feature toggle capabilities, as well as web content management and digital commerce.

**Responsibilities:**

* Conducted in-depth analysis of Python 2.7 codebase to identify dependencies and compatibility issues.
* Managed third-party library updates for Python 3.9 compatibility.
* Systematically updated code syntax and structure to align with Python 3 conventions.
* Addressed Unicode-related issues and improved string handling for Python 3 standards.
* Replaced Python 2 print statements with Python 3's print() function.
* Updated integer division behavior to accommodate Python 3's true division.
* Implemented comprehensive unit tests to ensure functionality and prevent regression.
* Updated project documentation to reflect migration changes and modifications.
* Optimized code for better performance on Python 3, leveraging new language features.
* Successfully migrated a complex codebase, minimizing downtime and production impact.
* Migrated a webapp2 application to Flask for improved scalability and maintainability.
* Integrated Flask with GCP services for backend functionality.
* Leveraged GCP services such as Cloud Storage, Cloud Firestore, or Cloud SQL for data storage.
* Updated routing and request handling to align with Flask's structure.
* Ensured seamless integration of Flask with other GCP components in the application.
* Optimized API endpoints and backend services for enhanced performance.
* Implemented security best practices for the Flask application on GCP.
* Collaborated with the DevOps team to deploy Flask application updates on GCP.

**Environment/Tools: Python, Flask, MySQL, Docker, Google App Engine, Pytest(unitesting Framework), Jira, Confluence, GIT**.

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| **NeoSoft Technologies, Noida** | | **Dec. 2020– Aug 2021** | |
| **Senior Software Engineer** | |  | |
| **1. Project : Renew Buy - Insurance Tech Product** |  | | **Dec 2020 – Dec 2021** |

RenewBuy is an insurance technology company offering a platform for comparing and purchasing automobile and health insurance.

**Responsibilities:**

* Led the development of a **quote feature, utilizing RabbitMQ** to enable synchronous communication with multiple insurance services simultaneously.
* Conducted a thorough analysis of business requirements, determining data needs, and establishing an efficient communication flow.
* Integrated RabbitMQ seamlessly into the application, implementing message queues for both sending quote requests and receiving responses.
* Designed and implemented a standardized message structure for clear and consistent communication between the application and insurance services.
* Implemented synchronous messaging, enabling concurrent calls to multiple insurance services and ensuring efficient handling of quote requests.
* Developed robust error-handling mechanisms to manage failures during message processing, ensuring high system reliability.
* Addressed potential concurrency issues, employing effective concurrency management strategies for synchronous calls to insurance services.
* Engineered components for handling incoming quote requests, extracting relevant information for communication with insurance services.
* Successfully integrated the application with APIs of various insurance services, ensuring proper authentication, authorization, and adherence to API specifications.
* Implemented logic for response aggregation, considering factors such as coverage, pricing, and terms from different insurance services.
* Optimized the performance of the quote feature through techniques like caching and load balancing, ensuring high responsiveness and scalability.
* Established comprehensive logging to capture key events and errors, facilitating efficient debugging and troubleshooting.
* Conducted thorough testing, including unit testing, integration testing, and end-to-end testing, to ensure the reliability and correctness of the quote feature.
* Created clear and comprehensive documentation covering messaging protocols, error handling procedures, and integration guidelines.
* Collaborated effectively with cross-functional teams, including developers, QA engineers, and stakeholders, to ensure a smooth integration process.
* Considered scalability requirements and designed the system to handle an increasing number of quote requests and insurance service integrations.

**Environment/Tools:** **Python, Django, RabbitMq, ORM, Git, Jira, Confluence, Celery.**

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| **Planet Cast Media Service Limited. Noida** | **Dec. 2018 – Dec. 2020** |
| **Software Engineer** |  |

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| **1. Project : Recaster (SRT - Secure Reliable Transport)** | **Dec 2018 – Oct 2020** |

Recaster is an application to provide the user an interface to setup the video stream and internally it's using SRT (Secure Reliable Transport) Provides end-to-end encryption to secure video streams.

**Responsibilities:**

* Spearheaded the development of a sophisticated video transportation dashboard using Python Django.
* Designed and implemented an intuitive web interface allowing users to effortlessly configure channel details, IP sources, and destinations.
* Successfully integrated the SRT library into the dashboard, ensuring secure and reliable video transport over the internet.
* Implemented dynamic configuration features, empowering users to customize channel parameters such as latency, quality, and encryption settings.
* Integrated real-time monitoring tools, providing users with instant insights into video stream performance metrics.
* Implemented robust user authentication and authorization mechanisms to secure access to the dashboard and configuration settings.
* Developed functionalities for seamless management and configuration of IP sources and destinations, streamlining setup processes.
* Implemented thorough error-handling mechanisms for graceful management of exceptions during video transportation, coupled with detailed logging for effective troubleshooting.
* Designed the dashboard to be scalable, accommodating a growing number of channels and users without compromising performance.
* Collaborated seamlessly with cross-functional teams, including frontend developers, backend engineers, and UI/UX designers, ensuring a cohesive and user-friendly dashboard.
* Conducted rigorous testing, including unit tests and end-to-end tests, to ensure the reliability and functionality of the dashboard across various scenarios.
* Produced comprehensive documentation, including user guides and technical documentation, to facilitate easy adoption and maintenance of the developed dashboard.
* Demonstrated proficiency in key technologies, including Python, Django, and the SRT library, showcasing a strong technical skill set.

**Environment/Tools:** **Python, Django,ORM, MySql RabbitMq , Celery, HTML, CSS, Java Script, Git, Jira.**

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| **2. Project : POC Adevertisement Feed - Ad Packet** | **Nov 2017 – Jun. 2018** |

This project for adding advertisement snippets dynamically during specific events in an IPL cricket match live feed using AI/ML

**Responsibilities:**

* Spearheaded a Proof of Concept (POC) project demonstrating the dynamic insertion of advertisement snippets during IPL cricket matches using AI/ML models.
* Utilized Keras for developing deep learning models to recognize cricket events, including a player hitting a four, reaching a boundary, completing an over, or a wicket falling.
* Integrated OpenCV for advanced computer vision applications, enabling real-time analysis of the live feed to identify key events during IPL cricket matches.
* Designed and implemented custom neural network architectures using Keras for accurate event recognition and classification.
* Applied transfer learning with pre-trained models in Keras (e.g., VGG16, ResNet) to enhance model performance and expedite convergence.
* Developed algorithms using OpenCV for real-time video analysis, including object recognition, tracking, and localization.
* Implemented dynamic advertisement insertion logic triggered by specific events, such as hitting a four, reaching a boundary, completing an over, or a wicket falling.
* Leveraged AI/ML models to enhance contextual analysis, considering player performance, match dynamics, and viewer demographics for relevant advertisement placement.
* Ensured seamless rotation of advertisements during different events, enhancing viewer engagement and diversity in the viewing experience.
* Conducted thorough testing and optimization to measure the effectiveness of advertisement insertions, considering viewer engagement metrics and click-through rates.
* Documented the POC methodology, algorithms, and outcomes for comprehensive reporting, providing valuable insights into the success and potential enhancements of the dynamic advertisement insertion system.

**Environment/Tools:** **Python, Keras and OpenCv and Django, Git, Jira**.

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| **Cyient Limited. Noida** | **Feb. 2016 – Apr. 2018** |
| **Software Engineer** |  |

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| **1. Project : Massive Cat(Tom Tom)** | **Dec 2018 – Oct 2020** |

This Project basically use for traffice signs massive images categorization.

* Developed desktop application for GIS Data categorization using Java, Swing.
* Developed new features to categorize traffic signs images and added more categories.
* Code Standardization: Creating the templates for classes and functions.
* Authored unit test cases.