

NAME: RISHABH RAWAT

DESIGNATION: LEAD-II- Data  
Analytics

# Rishabh Rawat

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## Profile Summary

### Domain/ Sub-Domain –

Aviation

Banking

Telecommunication

IOT

Energy

### Core Competency –

Product Development

Python/Backend Development

Data Engineering

CI/CD

ETL Pipelines

UI-Frontend Development

### Education –

Bachelor of Technology

Graphic Era University

Seasoned IT professional with over 10 years of robust experience in backend development, data engineering, and system architecture, specializing in Python, Django, Flask, and FastAPI. Demonstrated expertise in developing scalable backend systems, optimizing data pipelines, and implementing machine learning solutions to drive business efficiency and innovation. Proficient in managing and deploying on cloud platforms such as Azure, with a strong background in leveraging SQL databases and NoSQL technologies like Elasticsearch for high-volume data management.

I have led CI/CD pipeline construction, enhancing software delivery and reliability across distributed systems. I have extensive experience in managing and deploying applications in cloud environments, ensuring scalability and reliability.

Implemented intuitive user interfaces using frontend frameworks like React and Angular, ensuring smooth navigation and interaction for customers during the flight booking process. Utilized responsive design principles to optimize the application for various devices, enhancing accessibility and usability.

Implemented optimization products aimed at reducing operational costs by enhancing efficiency and resource utilization within the flight booking system. Leveraged advanced algorithms and data analysis techniques to optimize crew scheduling, resulting in significant cost savings while maintaining operational integrity and compliance with regulatory requirements.

Additionally, developed and deployed crew scheduling optimizers that streamlined resource allocation and minimized downtime, resulting in improved productivity and cost-effectiveness. These initiatives contributed to enhanced operational efficiency and customer satisfaction while achieving tangible cost reductions for the company.

## Background Skills:

- **Strong proficiency in Python:** I have a thorough understanding of Python and its various libraries and frameworks, including Django, Flask, and FastAPI.
- **Database management:** I am proficient in using various databases, such as MySQL, PostgreSQL, and MongoDB, for storing and managing data in my projects.
- **Understanding of software architecture:** I have a thorough understanding of software architecture principles and have experience in designing scalable and maintainable systems.
- **Experience with Agile methodologies:** I am well-versed in Agile methodologies and have experience leading teams and projects using Scrum or Kanban frameworks.

- **Knowledge of front-end development:** I have experience in front-end technologies such as React, Angular, and Vue, enabling me to work effectively in full-stack development projects.
- **Familiarity with machine learning:** I have a basic understanding of machine learning and have used libraries such as TensorFlow and scikit-learn in my projects.
- **Experience with version control:** I am proficient in using version control systems such as Git, which has helped me collaborate effectively with team members.
- **Strong problem-solving skills:** Throughout my career, I have honed my problem-solving abilities, which have helped me troubleshoot and resolve complex issues in projects.
- **Team management skills:** As a lead developer, I have experience in managing and mentoring teams, allocating tasks, and ensuring timely project delivery.
- **Communication and collaboration:** I have excellent communication and collaboration skills that have helped me effectively work with cross-functional teams, stakeholders, and clients.
- **Continuous learning:** I have a passion for learning new technologies and keep myself updated with the latest advancements in the Python ecosystem.

## Technology Proficiency

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|------------------------|---|
| <b>Technology:</b>     | <p><b>AWS Services:</b> Amazon S3, Lambda, ECS, ECR.</p> <p><b>Azure Services:</b> Azure Devops, ServiceBus, Logstorage, Container app.</p> <p><b>Servers and Operating Systems:</b> LINUX, Windows 10, Mac OS.</p> <p><b>Languages:</b> Python, HTML, CSS, , C\C++.</p> <p><b>Frameworks:</b> Django, FastAPI, Flask, Pyspark, Next.js, Angular, .</p> <p><b>Cloud:</b> AWS, Azure.</p> <p><b>Big Data Tools:</b> Spark, Kafka, , Hive, NIFI, Cloudera Manager.</p> <p><b>Version Control:</b> GIT.</p> <p><b>Devops Tools:</b> Azure Devops, Docker, Jenkins, Gitlab.</p> <p><b>Monitoring tools:</b> Moogsoft, Grafana.</p>  |
| <b>Databases:</b>      | SQL, SQLite3, MongoDB, PostgreSQL, Elastic search, Hbase, GraphiteDB.   |
| <b>Certifications:</b> | <p><b>Microsoft Certified: Azure Administrator Associate :</b> Demonstrated expertise in managing and optimizing Azure environments, ensuring seamless operation and adherence to industry standards. Proficient in designing and implementing Azure infrastructure solutions to meet business requirements effectively.</p> <p><b>Microsoft Certified: AZ-305: Designing Microsoft Azure Infrastructure Solutions:</b> Certified in designing comprehensive Azure infrastructure solutions, with a focus on scalability, security, and performance optimization. Skilled in architecting Azure environments to support diverse workloads and meet the evolving needs of modern businesses.</p> |

| Organisation: UST (WheelsUp) |   |   |
|------------------------------|---|---|
| Duration                     | May 2023 – Present  | Role: LEAD-II DATA ANALYTICS  |
| Project Type                 | Product Development,Optimizer.  | Technology:<br>AZURE,FASTAPI,DJANGO,NEXT.JS,DEVOPS,MACHINE LEARNING, SQL,DATA PIPELINE,ETL. |
| My Responsibilities          | <p>My technical development at UST involved spearheading major projects that improved real-time data services for flight booking systems,crew scheduling, using advanced analytics and machine learning to optimize operations and reduce costs.I have created optimizer applications for wheelsup for cost efficiency, flight management and crew management.</p> <ul style="list-style-type: none"><li>Developed robust backend optimization products tailored to flight booking, recovery flights, and real-time flight and crew management for wheelsup.</li><li>Successfully deployed backend services on Azure cloud infrastructure for flight booking and recovery flights, leveraging Python, Django, and SQL databases for seamless development and performance optimization.</li><li>Developed optimization products using machine learning models aimed at optimizing flight routes, effectively reducing travel time and cost while enhancing operational efficiency.</li><li>Facilitated comprehensive code reviews and championed best practices in Python, Django, and FastAPI, ensuring the maintenance of a high-quality, scalable, and maintainable codebase.</li><li>Orchestrated and managed developers, overseeing their activities to ensure alignment with project objectives and deadlines.</li><li>Applied expertise in Python, Django, Flask, SQL, and other technologies to guide the team in optimizing code, resulting in a remarkable reduction in execution time.</li><li>Collaborated closely with cross-functional teams to identify optimization opportunities and implement scalable solutions, thereby enhancing overall system performance.</li><li>Led software development initiatives, leveraging Python proficiency to ensure code quality, scalability, and maintainability.</li><li>Utilized Python scripting and automation tools to streamline processes and foster innovation, thereby enhancing team efficiency and productivity.</li><li>Additionally, provided mentorship to junior developers, conducted interviews, and fostered a culture of knowledge sharing, significantly contributing to team development.</li></ul> |   |

## Organisation: Credit Suisse

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|---------------------|---|---|
| Duration            | Jan 2021 – April 2023   | Role: Senior Software Engineer  |
| Project Type:       | Application Development, Data Pipelining.   | Technology:<br>AWS,Python,Spark,Django,Gitlab,Jenkins, MySQL, SQL Server. |
| My Responsibilities | <p>As a part of the Reliability and Enablement team worked on monitoring the internal tools servers and Centralising the server monitoring for Credit Suisse for cost-reduction. Worked on Django framework for writing scripts for connecting the data source to monitoring tool grafana and Moogsoft. Worked on creating data pipeline using NIFI tool. Creating SQL queries to pull data from warehouse for analytics. Wrote python scripts to pull data from data sources. Created CI/CD pipeline using Gitlab.Worked with many teams offshore, collecting the required information for their monitoring source. Creating Dashboard on Grafana for metrics and alerts for moogsoft. Attended offshore client calls daily for update on the task.</p> <ul style="list-style-type: none"><li>Worked on Django framework to design platform for server monitoring scripts and API.</li><li>Implemented Kafka cluster on real time data collected from logstash.</li><li>Worked on creating data pipeline using NIFI tool.</li><li>Creating SQL queries to pull data from warehouse for analytics.</li><li>Developed Python &amp; Shell scripts for automated deployments, self-tests and periodic device Monitoring.</li><li>Integrated monitoring tools Moogsoft Grafana with Data servers for metric and alert aggregation.</li><li>Created pyspark jobs to transform huge amount of metric data.</li><li>Worked extensively on AWS platform like Glue, ECR Lambda.</li><li>Ingested data in Data warehouse OSMOSYS for alert aggregation.</li><li>Developed CI/CD Pipelines using Gitlab.</li><li>Wring python scripts to ingest and pull data from data sources.</li><li>Ensured high quality data collection and maintaining the integrity of the data.</li><li>Worked with offshore teams to collect the requirements for monitoring the server.</li><li>Ensured smooth communication between the development team and the client,focusing on a correct transition of the requirements and specifications.</li></ul> |   |

## Organisation: In2IT Technologies

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|---------------------|---|--|
| Duration            | June 2019 – Jan 2021  | Role: Python Developer-II  |
| Project Type        | Development & integration   | Technology: Python, Django, Kafka, AWS, S3, AWS lambda, Posgresql, REST API. |
| My Responsibilities | <p>Developed and designed the application using Django framework. Parsing a huge amount of data using python to implement machine learning on the data. Created AWS s3 and kafka pipeline. Worked on elasticsearch nosql database to deal with huge amount of data gathered from NMS. Worked on AWS lambda to create functions for dashboard event. Worked on Microsoft AD, importing the users using Ldap and hence using them for login purpose. Successfully deployed POC and Sandbox Environment and demo to customer.</p> <ul style="list-style-type: none"><li>Developed and designed the application using Django framework.</li><li>Developed Network monitoring tool for a telecommunication client.</li><li>Created AWS s3 and kafka pipeline.</li><li>Worked on AWS lambda to create functions for dashboard event.</li><li>Developed standalone Authentication gateway on Django using Microsoft AD to import users.</li><li>Designed variety of RDBMS according to requirement like MySQL and PostgreSQL.</li><li>Worked on elasticsearch nosql database to deal with huge amount of data gathered from NMS.</li><li>Parsing a huge amount of data using python to implement machine learning on the data.</li><li>Worked end to end on setting up data pipeline for huge amount of data using big data technologies.</li><li>Successfully deployed POC and Sandbox Environment and demo to customer Integrated streamsets to ingest data into Hadoop.</li></ul> |  |

## Organisation: ConvergentIS

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|---------------------|--|--|
| Duration            | Jan 2016 – June 2019   | Role: Python Developer   |
| Project Type        | Development & integration  | Technology: Python, Django, Kafka, AWS, S3, AWS lambda, Posgresql, REST API, Celery. IOT |
| My Responsibilities | <p>Responsible for setting up cloud based IOT system. Python scripting on gateway and cloud using Django framework. Managing cache redis DB, kafka and MQTT. Creating synchronous tasks in Celery. Testing and resolving live site issues.</p> |  |

- 2 Worked on Automated Home System using web application using Django Framework.
- 2 Developed Python & Shell scripts for automated deployments, self-tests and periodic device monitoring.
- 2 Enable Technology using (Streamsets, spark and Kafka ) to ingest Sensor and IoT Data into Hadoop and Run Real time Analytic to predict Failure and plan maintenance.
- 2 Developed data pipelines (ingest/clean/munge/transform) for feature extraction towards predictive analytics.
- 2 Used Spark APIs to perform necessary transformations and actions on the fly for building data pipelines which gets the data in batch and real-time in lambda architecture.
- 2 Involved in analysis of end user requirements and business rules based on given documentation and work closely with tech leads and business analysts in understanding the current system.
- 2 Wrote deliverables presentations and and investigations for business use.
- 2 Analysed business requirements and designed appropriate technical solutions to
- 2 meet the needs of business users for project-based and ad-hoc reporting requests
- 2 Analysed source systems to determine integration approach.

