

ROSHAN GUPTA

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Experience

SAP Labs

Jun 2020 - Present

Software Developer

Bangalore, India

- Reduced manual communication efforts between suppliers and customers by automating the delivery of transaction statements, resulting in a 25% increase in customer engagement. By Engineering an SMTP-based email service using **JavaMail Library and a Job Scheduler**.
- Implemented file attachment services in the application, enabling customers to upload files. Leveraged **Amazon Web Services' S3 object storage** for efficient and secure storage and retrieval.
- Responsible for designing database schema and data Modeling architecture to support the application's functionalities and performance requirements, By employing **Database Normalization Techniques**.
- Designed and implemented distinct **RESTful APIs and OData Services** within the application, to enhance user experience and system performance. By incorporating advanced functionalities such as **Filtering, Sorting, and Pagination**.
- Implemented Cloneable functionality where user can create cloned table record from another record, By using **draft database table and Event Driven Architecture**.
- Implemented Jenkins setup for the deployment of a SaaS application on the cloud, To streamline continuous integration and delivery processes. By configuring CI/CD stages for different **cloud environment**.
- Responsible for maintaining and resolving 50+ issues in a **cloud-based multi-tenant SaaS Application**.
- Integrated a malware detection service using a cloud SDK and employed the **Circuit Breaker Pattern** to enhance reliability and **fault tolerance** into the application.
- Developed a reusable JavaScript library with cross-application compatibility, enhancing code efficiency and maintainability through shared components and functions. Using **Asynchronous Module Definition**.
- Took charge of implementing UI visualization components in application such as **Heat Maps, Line Charts, Bar Charts, and Micro Charts**.

SAP Labs

Aug 2018 - Jun 2020

Fullstack Developer - Student Intern

Bangalore, India

- Responsible for integrating 5+ UI apps with rest and OData service using advanced filter capabilities.
- Implemented a master data upload service enabling the creation of table records from Excel rows, leveraging the Apache POI Library and utilizing the **Builder Design Pattern**.
- Responsible for configuring 10+ routes in the **Reverse Proxy** for different application and API Services.
- Increased app performance by reducing number of **API calls** going to backend by refactoring the UI code.
- Streamlined pre-sales operations, boosting team productivity and operational effectiveness. By creating a suite of efficient internal tools using Java, Spring boot, Hibernate, JPA and Cloud Foundry.

Education

Birla Institute of Technology and Science

Master of Technology in Software Engineering (CGPA of 7.2)

August 2018 - August 2022

Pilani, India

CMR Institute of Management Studies

Bachelor of Computer Application (CGPA of 8.2)

June 2015 - June 2018

Bangalore, India

Technical Skills

Languages : Java, JavaScript, SQL

Technologies/Frameworks/Libraries : Spring boot, Microservices, Data Structures, System Design, MySQL, Event Driven Architecture, Cloud Foundry, Object Oriented Programming, HTML, JQuery, Ajax, CSS, OData, REST API, Git, HANA DB, Jenkins, CI/CD, Cloud Application Development, Agile Methodology

Projects

Implemented a Generative Adversarial Network (GAN)

using Python and Keras within Jupyter Notebook to generate high-resolution Pokémon images from a diverse dataset of over 10,000 images. Designed a custom GAN architecture with a generator and discriminator network. Demonstrated proficiency in deep learning, data preprocessing, and advanced machine learning techniques.

Generate sales leads from email conversation using AI/ML

Developed an intelligent machine learning model using Python, NLP, Scikit Learn, and Flask that can predict the type of sales leads from email conversations and created a working UI dashboard for analytic and lead management.

Achievements

- Authored a comprehensive blog post on Machine Learning and TensorFlow, detailing the process of deploying a machine learning model on Cloud Foundry.
- Consistently delivered expert technical support across diverse technology domains to colleagues within the Line of Business (LOB), enhancing team capabilities and fostering collaborative problem-solving