Rutvi Rathod

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Technical Skills

Languages : Python, JavaScript, Java,
Database : PostgreSQL, MongoDB
Cloud : Microsoft Azure, AWS, Docker, Kubernetes
Front end : React, HTML, CSS
Backend : Django, Flask, SpringBoot, NodeJs, Fast API
Developer Tools : Visual Studio Code, Jupyter Notebook, Tableau, PyCharm, Git, Agentic AI

Education

Chhotubhai Gopalbhai Patel Institute of Technology
June 2020 - May 2024
Bachelor of Science in Software Engineering
Surat, Gujarat

Experience

Software Engineering Intern
Dec 2023 - June 2024
Ridaro Inc

- Developed and maintained scalable backend services using Python (Django, Flask, FastAPI) and Spring Boot, improving application reliability and performance.
- Designed and implemented RESTful APIs, integrating with React front-end applications for real-time user interactions.
- Built secure authentication systems featuring OTP verification and face recognition, enhancing user security and simplifying login processes.
- Managed data storage and retrieval with PostgreSQL and MongoDB, optimizing the system for large-scale data operations.
- Deployed cloud-based applications on AWS, ensuring high availability, scalability, and fault tolerance while optimizing API response times by 30%.
- *Impact:* Enabled Ridaro Inc. to achieve improved system performance and operational efficiency through scalable and secure backend systems. The features developed contributed to an enhanced user experience, robust data management, and streamlined workflows, driving productivity and customer satisfaction.

Projects

Attendance System Using Face Recognition

Dec 2023 - June 2024
Tech Stack: Python, Django, FastAPI, PostgreSQL, AWS

- Developed an innovative face recognition-based attendance system leveraging Python libraries for facial data processing and analysis.
- Built real-time APIs using FastAPI to enable high-performance facial recognition and seamless data handling.
- Designed secure user authentication workflows and face enrollment processes to ensure accurate and reliable attendance tracking.
- Integrated the system with external cameras and devices, enabling real-time attendance monitoring across multiple locations.
- Optimized the application for scalability, supporting concurrent user operations and large-scale data storage using PostgreSQL and AWS services.
- *Impact:* Delivered a cutting-edge attendance solution that enhances operational efficiency and eliminates manual errors. The system provides organizations with a scalable, secure, and automated method for tracking attendance, reducing administrative workload, and improving accuracy.

Wedding App

June 2024 - Sep 2024
Tech Stack: React, Node.js, HTML, CSS, AWS, Docker

- Developed a responsive web application for wedding planning, featuring guest list management, event scheduling, and dynamic itineraries.
- Designed and implemented a photo and video gallery module allowing users to upload, organize, and manage media by event/function.
- Enabled advanced media functionalities, including downloading, rotating, zooming, sharing, and marking items as favorites.
- Built secure server-side functionalities and RESTful APIs for efficient data management and user authentication.
- Deployed the application on AWS using Docker for scalability, reliability, and seamless performance
- *Impact:* Delivered a versatile platform that simplifies wedding planning, offering users an intuitive and feature-rich solution to effectively manage their events and media.

Scalable User Management and Data Processing System

Sep 2024 - Nov 2024
Tech Stack: Python, FastAPI, Azure Cloud, SQL, Basics of Machine Learning

- Developed a highly efficient and scalable platform for user management and data processing tailored for enterprise-grade systems.
- Implemented secure user authentication and authorization using JWT and OAuth 2.0, with features like role-based access control and multi-factor authentication (MFA).
- Designed dynamic data processing pipelines capable of handling large-scale data ingestion, transformation, and real-time analytics.
- Built RESTful APIs following industry best practices to enable seamless integration with web and mobile applications.
- Incorporated basic machine learning models for data classification and predictive analytics, enhancing decision-making capabilities.
- Deployed the application on Azure Cloud, utilizing services like Azure Functions and Azure SQL Database for scalability, reliability, and resilience.
- Enhanced system performance through caching, database indexing, and load balancing, reducing response time by 40% under high concurrency.
- Automated critical workflows such as data validation, task scheduling, and notification management, improving efficiency and minimize manual intervention.
- *Impact:* Delivered a robust platform capable of handling large-scale user operations and complex data processing, providing scalable and secure solutions for real-world enterprise applications. Demonstrated expertise in backend development, cloud deployment, and foundational machine learning techniques, aligning with industry-leading practices.