Saumya Bhatt

Backend Software Engineer

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Software engineer with nearly three years of expertise in backend development. Proficient in developing near real-time services utilizing Apache Kafka and event-driven microservices, as well as crafting data pipelines to support machine learning applications. Additionally, possess hands-on proficiency in frontend stack and web development.

TECHNICAL SKILLS

Languages: Kotlin, Java, Python, Javascript, Golang, C++, HTML, CSS
Frameworks: Ktor, Spring Boot, NodeJS, ExpressJS, Flask, Django, ReactJS
Databases: PostgreSQL, Redis, MySQL, MongoDB, Elastic Search
Developer Tools: AWS, Docker, Kafka, Firebase, Heroku, Git

EXPERIENCE

SDE 1   July 2022 - Present
Porter   *Bengaluru, Karnataka*
- Built the payments microservice in Kotlin which currently processes **82% of all online transactions** at the Porter with an **uptime of 99.5%**.
- Implemented dynamic switching between different Payment Gateways based on User Profile and region to **improve payment success rate from 74% to 87%**.
- Built the model serving platform that powers the matchmaking service by ranking drivers based on 100 different features with a **p95 latency of 250ms** and **handles 2-3 Lakh requests per day.**
- Building the feature computation layer using **Kafka and Spark** to serve the offline and online driver features.

SDE Intern   July 2021 - December 2021
Nucleus Software   *Greater Noida*
- Developed a customer classification and visualization dashboard for banks to perform **RFM analysis** on their user-base and classify them into 5 relevant segments.
- Wrote a **Machine Learning model** that used K-means clustering algorithm and trained on 1 lakh entries, served by a **Spring-Boot based server** to the **ReactJS based frontend** as a REST interface.

Summer Intern   August 2020 - October 2020
CSIR - National Institute of Oceanography   *Panjim, Goa*
- Created a web-based dashboard in Python to manage and communicate with **25 marine robots in real-time.**
- Devised ability to **track location using image rasterization** with a lag of 5 seconds and **stream camera feed in near-real** time using OpenCV, WebSockets, and RTSP Protocols

EDUCATION

BITS Pilani, Goa Campus
B.E. Electronics and Electrical Engineering   *July 2018 - August 2022*
- Teaching assistant for **Object-Oriented-Programming (OOP)** course.

PROJECTS

ClickStream Simulator 1.0 | *Kafka, RabbitMQ, SpringBoot*   June 2021 – December 2021
- End-to-end application to stream click events from a React-based web app to a python consumer that **triggers an email on suspicious activity in near-real-time** (lag of 1 second) using Kafka.

Movies By the Sea | *React, NodeJS, Firebase*   June 2021 – December 2021
- Created backend, frontend, CRM, and a public REST API (**with a latency of 300ms**) with **role-based-access using JWT tokens** for personal movie review blog.

Fullstack Twitter Clone | *Flask (python), MySQL*   June 2020 – December 2020
- Implemented **user authentication**, and **session management system** with CRUD abilities based on user roles.

Local Chat Room | *Javascript, MySQL*   May 2020 – June 2020
- Near-Real time multi-user chat room running locally on an Apache server using web sockets.