

# Saumya Bhatt

## Backend Software Engineer

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Software engineer with nearly three years of expertise in backend development. Proficient in developing high throughput and near real-time services, writing clean and robust code. 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, GCP, Docker, Kafka, Firebase, Heroku, Git

## EXPERIENCE

- Porter** June 2024 - Present  
*SDE 2*
  - 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**.
  - Worked on setting up the framework for Data Scientists to define features for offline and online queries using a **python-based DSL**. This brought down TAT of deploying ML models from **1.5 month to 2 weeks**.
  - Part of the squad to migrate the services at Porter from AWS to GCP which **helped cut infra cost by 30%**.
- Porter** July 2022 - June 2024  
*SDE 1*
  - 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%**.
- Nucleus Software** July 2021 - December 2021  
*SDE Intern*
  - 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.
- CSIR - National Institute of Oceanography** August 2020 - October 2020  
*Summer Intern*
  - 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

- Karya** | *Kotlin, RabbitMQ, Redis, Postgres* October 2024 – December 2024
  - An open-source distributed Task Scheduler designed for high-throughput job scheduling with support for periodic, delayed, and custom workflows. Integrates seamlessly into diverse tech stacks via YAML configuration, offering plug-and-play simplicity. Built for infinite scalability and robustness with a proven architecture. Multi-language client support ensures easy integration with any product.
- ClickStream Simulator 1.0** | *Kafka, RabbitMQ, SpringBoot* January 2024 – May 2024
  - 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.