Pankaj Kumar

pankajkumar130697@gmail.com | Linkedin | Github | Website | +91 9453994875

EDUCATION

DUAL DEGREE. IIT KANPUR

MAJOR IN, MATHEMATICS & STATISTICS MINOR IN, COMPUTER SCIENCE CPI - 9.3/10 2015 - 2020

COURSEWORK

COMPUTER SCIENCE

Machine Learning Artificial Intelligence Principles Of Database Systems Data Structures and Algorithms

ONLINE COURSES

Java Multithreading Java Advanced Concepts Java Memory Management Spring Boot & Hibernate Redis Data Structures Apache Kafka Fundamentals AWS Certified Solutions Architect Fundamentals of Back-end Engineering

SKILLS

PROGRAMMING

Languages

• Java • Go • Pvthon • C/C++

Frameworks & Libraries

Spring Boot • Flask

Databases

- MySQL Postgres
- MongoDB Redis
- Influx DB

Message Queues

• Kafka • SQS • Rabbit MQ

AWS

- Route 53 ECR EC2 S3
- Lambda fxn Cloud Watch

Deployment

- CI/CD Jenkins Celery
- Docker Kubernetes
- Git GitHub Actions

Tools

- Maven Bazel
- Junit Mockito Pytest
- JPA Hibernate SqlAlchemy
- GRPC, REST

EXPERIENCE

3 years of experience in developing high-performance, data-intensive, and scalable backend applications using cutting-edge technologies. Proficiency in solving complex problems through systematic design, with a strong foundation in Data Structures and Algorithms.

OCROLUS | SOFTWARE ENGINEER | GURGAON, INDIA

Mar 2023 - Oct 2023 | Detect Team

- Designed and Implemented a Fraud Detection Service for seamless identification of suspicious documents, facilitating confident lending decisions and averting approval of fraudulent applications. Presently, the service processes more than 50k documents daily.
- Involved in design discussion, development, code review, testing and deployment with complete ownership.
- Implemented a generic workflow using **Solid Principles** & **OOPs concept** to generate signals and visualization for different kind of docs like paystub, bs
- Tech Used: Python, Go | Flask | Pytest | Kafka, SQS | Postgres, Redis | Grafana

CLEARTAX | SOFTWARE ENGINEER | BANGALORE, INDIA

Aug 2020 - Feb 2023 | GST Team

- Developed an E2E indirect tax filing platform capable of handling a monthly txn volume of 100k. Streamlined tax compliance processes, resulting in reduced errors, improved accuracy, and significant benefits for businesses and govt
- Proficient in all stages of the software development cycle using Agile methodology, from planning and design to coding, testing, deployment.
- Successfully refactored legacy code using **Design Patterns** & **Solid Principles**, resulting in a 25% reduction in latency by eliminating deprecated API calls, optimizing various db queries, implemented IP address based rate limiting
- Created a licensing and metering service to enforce license purchases and renewals, effectively reducing instances of unauthorized use by 40%
- Integrated Govt APIs, established integration test and CI/CD pipeline, configured monitoring tools like metrics, alarms, logging, and dashboards.
- Improved the **on-call** process by hosting training sessions, providing retools, and automating various processes, resulting in a 30% decrease in ticket velocity.
- Tech Used: JAVA | SpringBoot | Junit | Kafka, SQS | Jenkins | AWS services | Docker, Kubernetes | MySQL, MongoDB, InfluxDB, Redis | Vault | Grafana

PROJECTS

TAXI FARE PREDICTION | Report, Prof. Faiz Ahmed

May 2019 - July 2019 | IIT Kanpur, India

- Designed model which predicts fare on various factors, with optimal accuracy
- Performed EDA on data using data visualization tools and techniques
- Employed Linear regression, Lasso, Random Forest and Artificial Neural Network models on the pre-processed data
- Model predicted fare with error $\pm 5\%$ compared to actual fare predictor device

ACHIEVEMENTS

- Spot Award Winner: For exemplary work done in licensing service project
- Academic Excellence: Received A* grade for exceptional performance in various courses in undergrad and postgrad