NAVKIRAN SINGH

+91-9988477504 | singh.navkiran1515@gmail.com | linkedin.com/in/navkiran-singh-tu/ | Github

EDUCATION

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Punjab, India 2017 - 2021

B.E Computer Engineering

CGPA 9.88 out of 10 | AIR 4195 in GATE CS 2021

2017 - 202

SKILLS

Backend: Python, FastAPI, Django, C++ | Frontend: React, Javascript, Typescript

Databases: MySQL, Redis, Elasticsearch, SpannerDB | DevOps: Docker, Kubernetes, Helm, GCP, Linux

Others: Machine Learning, Distributed Systems, Microservices, Scalability, Caching, SDLC

WORK EXPERIENCE

NOON.COM (ECOMMERCE STARTUP)

Gurgaon, India

Software Development Engineer 2

AUG 2022 - PRESENT

- Built the Rule Engine used across Noon to launch workflows with multiple decisions & parameters.
 Handles 5M+ tickets/day with up to 2500 regs/sec. Used Python, FastAPI, React, Elasticsearch.
- Designed and developed a custom Redis caching solution, reducing p99 latency by 77% and redis memory usage by 40x for large payloads, saving infra costs.
- Improved product search click-through rates by 12% leveraging text embeddings & vector search.
- Launched a time-saving utility to quickly set up infra alerts on Google Cloud Platform using only Git PRs and pre-defined templates, reducing dependency on DevOps.
- Took initiative and **fixed multiple critical security vulnerabilities** (ReDos/regex catastrophic backtracking, command injection, server-side request forgery).

ERICSSON Gurgaon, India

Software Engineer

JULY - DEC 2021

- Developed **Kubernetes** components for enterprise-grade **AI/ML platform**, enabling data scientists to **build, train, and deploy ML models** at scale.
- Implemented Identity Access Management using Keycloak for role based access to the platform.
- Created virtual data views in Denodo, integrating data from Hadoop and Cassandra, reduced query latency by 60%.

Software Engineer Intern

JAN - JUNE 2021

 Built Kubernetes workflows to automate Spark jobs for data ingestion and preprocessing and acquired hands-on understanding of Machine Learning lifecycle from model training to serving.

RELEVANT PROJECTS

Integrated Cache Based with Change Data Capture | Github Link

- Built a caching system with a query engine, storage engine, and change data capture (CDC) based on **Uber's CacheFront** architecture.
- Implemented automatic cache invalidation by tailing MySQL binlog and cache deduplication using custom Lua scripts for Redis.