PRATEEK KUMAR

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LinkedIn | **GitHub** | **Website**

ACADEMICS

New York University, New York   Sep '21 - May '23
M.S. in Computer Science, **CGPA** –3.94/4.0

SRM University, Chennai, India   Jul '13 - Jul'17
Bachelor of Technology (B.Tech) Computer Science, **CGPA** - 8.6/10

PROFESSIONAL EXPERIENCE

ClearMix, **Software Engineering Intern**   May'22 – Aug' 22
- Architected the design and led the development and integration of auto thumbnail generation service for the core platform reducing video editing time by 20%.
- Led the development of data platform for analyzing crucial metrics from the video data to drive video strategy.
- Designed an auto scraper tool for extracting video data from different websites and analyzed the data to provide video suggestions improving the delivery time for the video strategy team by 35%.
- Assist the engineering team with new and upcoming projects planning and execution.

New York University, *Course Assistant*   Jan'22 – Present
- Graduate Teaching Assistant for the Cloud Computing and Big Data Systems course at the CS department of New York University.

BridgeSGI Solutions India Pvt Ltd, *Senior Software Developer*   Jul '17 – Jul '21
- Developed an Intellectual Property, YANTRA Control Tower, for monitoring application performance and business KPIs generating revenue of approx. $500,000 in a single quarter.
- Design, develop and operate observability tools and services, including metrics system, dashboarding, alerting, log search and distributed tracing which helped to reduce the downtime of critical services by 30%.
- Redesigned multiple architectures and processes to reduce costly complexities to accelerate time-to-market releases by 20% using design patterns.
- Spearheaded early adoption of the latest technologies like Docker, distributed tracing, and alerting for signing new contracts and enhancing applications.
- Performed historical load from legacy OMS System into IBM Order Management System with 99.4 % accuracy.
- Winner - 1st and 2nd places in organization-wide hackathon for two consecutive years for building a demand forecasting system using time series modeling and designing a distributed tracing system for monitoring microservices.
- Actively involved in campus recruitment processes and helped employ more than 20 employees in the last 2 years.

ACADEMIC PROJECTS

Dining Concierge Chatbot (AWS):
- Built an AI-powered virtual agent that sends you restaurant suggestions given a set of preferences that you provide the chatbot using Amazon Lex with an accuracy of 92%.
- **Tech Stack:** AWS, Lex, S3, Lambda Functions, Dynamo DB, Elastic Search, API Gateway, Yelp API, SQS, SNS.

Text & Voice Controlled Photo Album (AWS):
- A smart photo album web application, that can be searched using NLP through both text and voice using AWS.
- **Tech Stack:** AWS (Lambda, Elasticsearch, API gateway, S3, Rekognition, Transcribe, Lex), Python, JavaScript

StackOverflow Data Analysis:
- Built a data pipeline to analyze stack overflow data using various big data technologies like PySpark, Elasticsearch, ES-Hadoop and Kibana.

TECHNICAL SKILLS

- **Cloud**: AWS, Docker, Kubernetes, Podman
- **Programming Languages –** Python, SQL, TypeScript, NestJS
- **Databases**: Elasticsearch, DynamoDB, MongoDB, PostgreSQL, S3, Aurora, Oracle Db
- **Tools/Platforms**: Elastic Stack, Spark, Kafka, GraphQL, Git, JIRA, REST APIs, Podman, Zipkin, Shell Scripting, CDK
- **OS:** Linux, Windows
- **Interests**: Data Analytics, Cloud Computing, Observability and Distributed Systems, Big Data, Data Engineering