Pankaj Mahtolia

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WORK EXPERIENCE

Samsung SDS, *Senior Executive Engineer* | Gurugram, India   *Sep 2021 - present*

- **Cloud-Based Manufacturing Execution System (MES):** Orchestrated development of RESTful APIs, transmitting and receiving ≈100+ payloads per sec. through Kafka topics for real-time data synchronization.
- Automated data migration with Java, streamlining transfer of ≈20+ database tables, reducing manual effort.
- **Project Management System (PMS):** Developed RESTful APIs and oversaw Excel reading with validations for user uploads in the Project Management System (PMS).
- Mentored and guided 15 interns, resulting in their outstanding performance in internship projects and eventual attainment of Pre-Placement Offers.

Samsung SDS, *Software Engineering Intern* | Gurugram, India   *July 2021 - Aug 2021*

- Implemented normalization | denormalization strategies to write | read in SQL resulting ≈20% improvement in response times.
- Participated in Samsung Internal hackathon, competing with over 15 teams to drive innovation and problem-solving.

Ingenious e-brain Solution, *Trainee - Research Associate* | Gurugram, India   *Jan 2021 - June 2021*

- Actively engaged in client projects related to Patent Infringement and Patent Searching across 10+ diverse service lines, including high tech, electronics, software, security, and more, resulting in successful project outcomes.

EDUCATION

National Institute of Technology Uttarakhand, *B.Tech in Computer Science GPA: 3.11/4*   *Aug 2017 - June 2021*

- **Relevant Courses (8/10 or higher grade):** Operating Systems, Data Structures and Program Design, Analysis of Algorithms, Network Security, Real-Time Systems, Computer Networks, Artificial Intelligence, Topics of Graph Theory, Software Engineering, Cloud Enabled Technologies, Database Management Systems, and more.

ACHIEVEMENTS

2024	**LeetCode Excellence**, Consistently ranking in the top 10% of participants with 900+ problems solved.	*India*
2022	**Samsung Professional Software Examination**, Attained recognition and award from Samsung SDS Managing Director, ranking among top 30% of engineers in internal software test.	*India*
2020	**Top 25 Finisher in Coding Competition**, Ranked top 25 out of 5000+ participants in a HackerEarth coding challenge organized by Masai School.	*India*
2018	**Lucideus Certified Cyber Security Professional**, Successfully performed advanced cybersecurity penetration testing, capturing multiple flags on a network of 5 interconnected machines at Lucideus Labs.	*India*
2017	**All India Rank in Top 2.5% among 1.1 million candidates**, Joint Entrance Examination(JEE Mains) 2017.	*India*

SKILLS

Technical Skills	Data Structures, Algorithms, Low-Level Design High-Level Design, Design Patterns
Languages	Java, C/C++, Python, SQL
DevOps	Git, JIRA, Confluence, Nexus, Github, ElasticSearch
Tools and Frameworks	SpringBoot, PostgreSQL, MySQL, Oracle, MyBatis, Apache Kafka, AWS, JUnit
Paradigms	Distributed Systems Web Development, Microservices, Machine Learning

ACADEMIC PROJECTS

Movie Recommender System   *March 2020 - May 2020*
NIT Uttarakhand   *Srinagar(Garhwal), Uttarakhand*

- Created a movie recommender system using NLP techniques. Developed an algorithm to analyze movie overviews, generate a TF-IDF matrix, and offer personalized top 10 movie recommendations.

Stone Paper Scissor Classification Model   *May 2019 - June 2019*
CETPA Infotech Private Ltd   *Dehradun, India*

- Implemented a CNN model for multiclass image classification, accurately categorizing images as Stone, Paper, or Scissors with a validation accuracy of ≈95%.

CERTIFICATES

2023	**Mastering System Design: From Low-Level to High-Level Solutions**, GeeksForGeeks.	*India*