Pankaj Mahtolia

+91-7060552177 | pankajmahtolia0@gmail.com | https://github.com/pankajmahtolia/ | https://www.linkedin.com/in/mahtoliapankaj/

WORK EXPERIENCE

Samsung SDS, *Senior Executive Engineer* | Gurugram, India — *Sep 2021 - present*
- **Cloud-Based Manufacturing Execution System (MES):** Led the implementation of RESTful APIs, seamlessly transmitted user pay-loads to Kafka topics, achieving real-time data synchronization.
- Automated data migration with Java, streamlining the transfer of over 70 database tables, reducing manual effort.
- **Project Management System (PMS):** Developed RESTful APIs and oversaw Excel reading with validations for multiple headers with their associated records during user uploads.
- 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*
- Created RESTful APIs and optimized SQL queries, resulting in enhanced overall system performance which improved data retrieval.
- 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*
- Established a strong professional presence in Intellectual Property Rights (IPR).
- 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

India	**National Institute of Technology Uttarakhand** , *BTech in Computer Science. GPA: 3.11 (7.78/10)*	*2017-21*

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, Data Mining and Data Warehousing, Cloud Enabled Technologies, Database Management Systems, and more.

ACHIEVEMENTS

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, XML
DevOps	Git, JIRA, Confluence, SonarQube, Nexus, Github, Elasticsearch
Tools and Frameworks	SpringBoot, PostgreSQL, MySQL, MyBatis, Apache Kafka, AWS, JUnit, Mockito
Paradigms	Distributed Systems, Cloud Computing, Web Development, Microservices, Machine Learning

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 multiclass classification Convolutional Neural Network (CNN) model that effectively categorizes images as Stone, Paper, or Scissors, achieving a validation accuracy of approximately 95%.

CERTIFICATES

2023	**Mastering System Design: From Low-Level to High-Level Solutions**, GeeksForGeeks.	*India*
2023	**Ultimate AWS Certified Solutions Architect Associate SAA-C03**, Udemy - Ongoing.	*India*
2019	**Machine Learning Using Python**, CETPA Infotech Private Ltd.	*India*