

# Mukul Agarwal

## Software Engineer

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### Profile

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I am a Software Developer seeking an opportunity at your esteemed organization. I bring strong problem-solving abilities, effective communication skills, creativity, sound decision-making, and proficiency in programming. I am eager to contribute these strengths toward achieving the company's goals while further enhancing my technical expertise and professional experience.

### WORK EXPERIENCE

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#### Associate Software Engineer, Sroniyan Technology (SRN)

06/2022 – 06/2023

Noida, India

##### 1. Analysts

- Developed both frontend and backend components.
- Designed backend using **Flask Framework** with a **microservices architecture**.
- Implemented Controller, Service, and ORM layers to handle core operations.
- Built RESTful APIs including **Insert, Delete, Update, Search, Display All, and Display by ID**.
- Designed and implemented dynamic **forms in AngularJS** for frontend functionality.

##### 2. HR Lancer

- Focused on frontend development using **AngularJS**.
- Designed and developed interactive **forms with field-level validations**.
- Applied **JavaScript** for custom validation logic and improved user experience.

#### System Engineer, Tata consultancy services (TCS)

03/2024

Noida, India

##### 1. Python Development Project

- Developed and maintained **Python functionalities** to ensure seamless application integration and performance.
- Implemented **bug fixes and feature enhancements**, improving application efficiency and user experience.
- Collaborated with cross-functional teams to **troubleshoot and resolve issues** within the Python codebase.
- Assisted in **testing, debugging, and optimizing** Python applications for better reliability and scalability.

##### 2. Generative AI – Chatbot Development

- Contributed to the development of an **AI-powered chatbot**.
- Worked on key components including **Guardrails, LangGraph, LangChain, PII handling, and RAG (Retrieval Augmented Generation)**.
- Enhanced chatbot performance, ensuring **secure, reliable, and context-aware responses**.
- Gained hands-on experience in **Gen AI frameworks** and applied them to real-world problem-solving.

## Academic Profile

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**Intermediate Examination, Madhya Pradesh Board of Secondary Education** 2019

- Intermediate Examination from Madhya Pradesh Board of Secondary Education in 2019 with 81.4%

**Secondary School Examination, Madhya Pradesh Board of Secondary Education** 2017

- Secondary School Examination from Madhya Pradesh Board of Secondary Education in 2017 with 87.1%

**Bachelor of Technology (B.Tech) in Information Technology(IT),**

*Rustam Ji Institute of Technology BSF Academy Tekanpur Madhya Pradesh*

- I have done Bachelor of Technology (B.Tech) in Information Technology(IT) from Rustam Ji Institute of Technology BSF Academy Tekanpur Madhya Pradesh with CGPA 8.89

## SKILLS

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- Generative AI: LangChain, LangGraph, Retrieval Augmented Generation (RAG), Guardrails, PII Handling
- Databases: SQL, MySQL
- Programming & Frameworks: Python, Flask, Django, HTML5, JS & Node JS.
- Other Tools & Concepts: REST APIs & Microservices.

## LANGUAGES

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### English

Full Professional Proficiency

### Hindi

Full Professional Proficiency

## INTERESTS

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- Listening Music
- Traveling and experiencing new cultures.

## Training and certifications

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**C Programming Certification course, The Target Institute** 19/04/2020

- Completed C Programming Certification course from The Target Institute on 19 Apr 2020

**C++ Programmer Certification course, Praedico Global Research Pvt. Ltd** 20/01/2021

- Completed C++ Programmer Certification course from Praedico Global Research Pvt. Ltd on 20 Jan 2021

**Industrial Training and development, numeric Infosystem Pvt. Ltd**

- Completed Industrial Training and development with numeric Infosystem Pvt. Ltd in Python and Data Science

**Python application development Internship, Sroniyan Technology (SRN)** 06/2022 – 09/2022

- I Achieved a Python application development Internship certificate from Sroniyan Technology (SRN) (06/2022 - 09/2022)

## Strength

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**Creativity**

## Leadership Qualities

## Keen Learning Ability

## Communication Skills

## Hard Working

## Positive Behavior

## Work Tolerance

## PERSONAL PROJECTS

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### 1. Student Maintenance Record

03/2022 – 05/2022

- Developed a **web application** using **Django and HTML** to manage student records.
- Implemented functionality to **capture student details** and display them in a structured **marksheet format**.
- Ensured a simple and user-friendly interface for **data entry and record retrieval..**

### 2. MedAssist

06/2021 – 02/2022

- Designed and developed a **Django web application** where patients can describe their **diseases and symptoms**.
- Implemented a recommendation system to **suggest suitable doctors** based on patient's health conditions.
- Enabled features for **appointment booking, prescription management, and online fee payment**.
- Focused on delivering a **seamless and user-friendly healthcare experience** through the platform.