



Dr. Neha Singhal

Backend Developer

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Technical Skills

Programming Technologies
Languages & Frameworks: Python, SQL, HTML, CSS, Flask, FastAPI

Tools & Platforms:
Docker, Postman, Git, GitHub, PyCharm, AWS, Render, CI/CD

Databases:
PostgreSQL, SQLite

Other:
RESTful API design, JWT Authentication, OOP, Git Version Control

Soft Skills

Problem-Solving, Collaboration, Communication, Research

Awards

Foundation of Human Relation, 2010
New Royal Book Company, ISBN: 81-89267-15-9

- Authored a book that analyzes human interaction, communication, and behavior to deepen understanding of interpersonal dynamics and societal health.

Statistics, 2007

- Authored a book on statistical research, emphasizing core methodologies and their practical application in social science data analysis.

Languages

English
Native

German
B1

Hindi
Native

****Versatile Backend Developer**** with a Ph.D. and over 300 hours of mentoring experience, now shifting focus to Support Engineering. Merges robust technical expertise in Python, APIs, SQL, Docker with superior problem-solving, communication, and client interaction skills, refined through years in academia. Enthusiastic about troubleshooting, process enhancement, and providing user-focused solutions in dynamic, high-speed environments.

Education

Masterschool Oct 2024 - Jun 2025
Software Engineering : Backend Development Training Grevenbroich, Germany Program

- Successfully completed an intense 8-month Software Engineering training by Masterschool - a global network of schools initiated by industry tech leaders.
- Developed proficiency in Advanced Python, Web Applications, OOP, Databases, SQL, Linux, Flask, HTML, CSS, Docker, and Cloud technologies.

Lucknow University Jun 2005 - Aug 2008
Doctor of Philosophy (Ph. D.), Social Work Lucknow, India

- Gained hands-on experience in research and data analysis, problem-solving, critical thinking, ethical decision-making, policy development, and project management.

Projects

Social Assistance Finder App
Tools & Technologies: FastAPI, PostgreSQL, JWT Authentication, RESTful APIs, Python, Docker, Git, GitHub, Render, CI/CD
[Project Link](#)

- Developed a RESTful backend for matching users to NGOs based on social needs using FastAPI and PostgreSQL.
- Implemented JWT authentication for secure user access.
- Deployed to Render with CI/CD pipeline.

Book Alchemy
Tools & Technologie: Python, Flask, SQLAlchemy, API, CRUD, SQLite
[Project Link](#)

- Developed a Flask-based book management system using SQLAlchemy, aiming to automate and simplify 100% of book data entry and retrieval.
- Implemented full CRUD operations and API integration, enabling seamless management of over 150 book records in a SQLite database with real-time data fetching.

Movie Project Application
Tools & Technologies: Python, OOP, Flask, API, CSV/JSON, SQL
[Project Link](#)

- Built a movie management system using OOP principles with the goal of streamlining 100% of the movie data handling.
- Implemented full CRUD functionality and integrated an external API, enabling automated retrieval and storage of movie details in JSON/CSV formats, managing over 100 movie records efficiently.

Experience

Lucknow University Sep 2009 - Jul 2011
Assistant Professor Lucknow, India

- Delivered 150+ lectures as an Assistant Professor, creating course content aligned with software engineering documentation.
- Mentored 300+ students in research methods and critical thinking, fostering collaboration in data-intensive environments.
- Applied statistical analysis and research methodologies in 3 major academic projects, strengthening data handling and backend development skills.