

Sneha Singh

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SUMMARY

Aspiring Software Engineer/Data Analyst with 3+ years of experience creating scalable, high-impact solutions, and a Computer Science graduate. Skilled in Python, SQL, Java, and cloud technologies, with expertise in client interaction. Possess a versatile skill set, experienced in developing robust systems, enhancing data processes, and turning complex datasets into actionable insights. A collaborative team player who combines a developer's precision with an analyst's curiosity to solve complex problems in fast-paced agile environments.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, SQL, HTML, CSS, R, C, C++, C#

Databases & Cloud: MySQL, MongoDB, Hadoop, PL/SQL, PostgreSQL, AWS, Google Cloud

AI/ML & Data Tools: PyTorch, Tensorflow, OpenCV, Mediapipe, PySpark, PowerBI, Matplotlib, NumPy, SAS

Development & Frameworks: Flask, React.js, RESTful APIs, Docker, Firebase, Unity, Android Studio, Git

Certifications: Training & Skill Upgradation for SAS Analyst (2025), (IBM) Data Analysis with Python (2022)

WORK EXPERIENCE

The State University of New York at Buffalo, NY | Research Assistant

Sep 2024 – Dec 2024

- Designed and executed research on LLM security and hallucination detection using Meta's Llama-3.2-1B model, leveraging Python for model experimentation and evaluation.
- Engineered adversarial training techniques, reducing hallucination scores by 1.6% and enhancing model robustness.
- Built an anomaly detection pipeline using PyTorch, SentenceTransformers, and Google Custom Search API, which improved the accuracy of detecting anomalies in data.
- Analyzed experimental results with Python-based tools like NumPy, Matplotlib, etc. and documented findings in technical reports, contributing to research in LLM security.

Oracle, India | IT Consultant

Oct 2020 – Jul 2023

- Spearheaded 20+ product upgrades and patchset deployments, addressing 95% client-reported issues.
- Engineered and integrated 10+ custom APIs and automation scripts in Java linked with required databases for the Flexcube platform, boosting operational efficiency by 30%.
- Diagnosed and resolved 50+ financial software inconsistencies, strengthening data integrity.
- Collaborated with cross-functional teams to troubleshoot and resolve high priority escalations, applying Java debugging and SQL tracing under strict SLA deadlines.
- Advanced from Associate Consultant to Staff Consultant in under 2 years, recognized for technical excellence.

IdeaLite Technologies LLP, India | Frontend Developer Intern

Sep 2019 – Jan 2020

- Prepared responsive front-end features using React, boosting user engagement by 30% across web campaigns.
- Designed 20+ marketing assets and integrated them into React-based applications, enhancing brand visibility and UI consistency.

PROJECTS

Signify – A Real-time ASL Detection Application ([GitHub Project URL](#))

- Built and deployed a real-time ASL detection system using Python, Mediapipe, and OpenCV, achieving 90%+ accuracy, leading data collection and model training, and securing 2nd place among 30+ projects at CSE Demo Days Spring 2024.

EDUCATION

University at Buffalo, The State University of New York

Aug 2023 – Dec 2024

Master of Science – Computer Science & Engineering | GPA: 3.87

- Machine Learning, Data Intensive Computing, Computer Security, Operating Systems, Deep Learning, Data Models and Query Languages, Management of IT Projects, Computer Vision, Statistical Data Mining