Sneha Yadav – Software Engineer

📌 Technical Skills

- **Languages & Technologies:** Java, Python, Go, Apache Hadoop, Apache Spark, Spring Framework, Kafka, REST API, JWT, OAuth 2.0, Microservices
- **Database & DevOps:** MySQL, PostgreSQL, Cassandra, DB2, GitHub Actions, Docker, Kubernetes, Azure
- **Developer Tools:** Postman, Git, Maven, IntelliJ IDEA, Open Specification API, SonarQube, Visual Studio

---

💼 Work Experience

Graduate Student Assistant (State University of New York, Aug 2024 – Dec 2024)

- Assisted in grading assignments & exams for Computer Security.
- Implemented a **more efficient rubric**, reducing grading time by **15%**.

Associate Software Engineer II (John Deere, India, Oct 2022 – Jul 2023)

- Developed features for **dealer-facing web applications** using Java & Spring Boot.
- Migrated a **legacy application** from WebSphere to Tomcat, **decreasing startup time by 15%**.
- Automated & streamlined **CI/CD pipelines** for 4 applications from Jenkins to GitHub Actions.
- **Redesigned database schema** (DB2 to PostgreSQL) to reduce bottlenecks.
- Optimized codebase by **removing 260+ redundant files**, **cutting build time by 17%**.

Application Development Analyst (Accenture, India, Jun 2022 – Oct 2022)

- Developed **20+ RESTful APIs** using Spring Boot for microservices.
- Designed **Kafka consumers & producers** for data ingestion & transformation.
- Engineered a **health-check microservice** with real-time alerts for 100+ services, **reducing downtime by 30%**.
- Conducted **knowledge transfers** for onboarding new team members.

Application Development Associate (Accenture, India, Dec 2020 – May 2022)

- Utilized **Open API Specification** to document APIs with Swagger.
- Wrote **unit tests** with JUnit 5 & Mockito to achieve **100% test coverage**.
- Diagnosed & fixed software bugs, increasing overall efficiency by **18%**.

🎓 Education

- **M.S. in Computer Science & Engineering**, University at Buffalo, SUNY (**3.8/4.0**), Aug 2023 - Dec 2024
- **B.E. in Information Technology**, University of Mumbai (**9.3/10.0**), Aug 2016 - May 2020

🚀 Projects

Real-Time American Sign Language Detection Application

- **Technologies:** OpenCV, Deep Learning, MediaPipe, Flask, JavaScript
- Developed a **real-time ASL letter recognition system** using land marking & a **custom CNN model trained on 9600 images**.
- Capable of processing **up to 1800 frames per minute**.

🏆 Extra-Curricular Activities & Achievements

- **Kubernetes Release Team (v1.32, 2024):** Shadowed the team, gaining insights into release processes & issue tracking.
- **2nd Place – CSE Demo Days (2024):** Awarded for ASL detection project.
- **Smart India Hackathon (2019):** Selected among **top 4 teams nationwide**.
- **Model United Nations (2018):** Achieved **High Commendation** at TCET MUN