

Suvidha Vidyasagar Deshpande

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EDUCATION

State University of New York at Buffalo

Master of Science in Computer Science - Artificial Intelligence

New York

Dec 2025

TECHNICAL SKILLS

Languages: Python (NumPy, SciPy, Pandas) | Java | Typescript | HTML | CSS | JavaScript | SQL

Frameworks & Libraries: TensorFlow | PyTorch | Keras | Scikit-learn | LangChain | LangGraph | LlamaIndex

Tools: Docker | Jenkins | Agile

Frontend: React.js (6+ yrs) | Angular | Vue.js | Responsive Design | UI/UX Principles | Accessibility (WCAG)

Backend Integration: Java (Spring Boot) | REST APIs | WebSocket

Cloud & Data Services: MongoDB | PostgreSQL | NoSQL

RESEARCH EXPERIENCE

University at Buffalo – Research Acceleration Program

Research Volunteer

New York

May 2025

- Conducting research on **Variational Autoencoders (VAEs)** for human pose estimation tasks, latent space optimization, contributing to improved pose reconstruction models for potential applications in health monitoring and biomechanical analysis.

PROFESSIONAL EXPERIENCE

Deloitte - Software Developer

June 2021 - July 2024

- Developed and deployed an enterprise RAG system using **LangChain**, **Python** and **Qdrant** to integrate LLMs with internal document repositories, reducing manual lookup time by 60% and improving decision-making efficiency.
- Led the frontend team at Deloitte of 6 developers for the design and development of responsive UIs using **React** and **Javascript**, improving user experience and accessibility across multiple client-facing web applications.
- Collaborated with backend teams using **Java (Spring Boot)** to build seamless UI-to-API integrations and optimize request handling.
- Improved UI performance by implementing lazy loading, modular architecture, and reusable component design.
- Participated in Agile ceremonies (daily stand-ups, sprint planning, retrospectives) as part of a cross-functional scrum team.
- Improved the release cycle by adopting **best practices** like **rigorous code reviews**, **Test-Driven Development (TDD)** with **Jest**, and **continuous delivery** using **Docker** and **CI/CD pipelines**. This accelerated our release cycle by 15%.

Zycus Infotech - Software Engineer

June 2019 - June 2021

- Built and maintained scalable and reusable UI components using **Angular** and **HTML CSS**, contributing to a shared design system used across 10+ SaaS products.
- Collaborated with the backend team to define **REST API** structures and workflows, ensuring seamless integrations.
- Contributed to internal POCs using **AWS Lambda**, **S3**, and **API Gateway** to build lightweight serverless APIs and event-driven workflows.
- Used **Git** for version control and collaborated on CI/CD pipelines with Jenkins; maintained release notes and documentation in **JIRA** and **Confluence**
- Worked closely with product managers, UX designers, and QA engineers to deliver features with rapid iteration cycles in Agile sprints.