

Swetha Jagadeesan

New York, USA | 929-684-7806 | sj4378@nyu.edu | [LinkedIn](#) | [GitHub](#)

EDUCATION

New York University, MS in Computer Science

Sep. 2023 – May 2025 | New York, USA

Relevant Courses: *Algorithms, Cloud Computing, Big Data, Machine Learning*

GPA: 3.7/4

Rajalakshmi Engineering College, B.Tech in IT

Aug. 2018 – June 2022 | Chennai, India

Relevant Courses: *Data Structures, DBMS, Software Engineering, OS*

CGPA: 3.78/4

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, PHP, Julia

Front-end Development & Frameworks: CSS, HTML, JavaScript, React, Node.js

Developer Tools: Git, Google Colab, Visual Studio, Postman, IntelliJ, Eclipse, Unity, Canva

Libraries: Pytorch, Pandas, Scikit-learn, Matplotlib, Scipy, Tensorflow, Pymc **Databases:** SQL, Oracle, Cassandra, MongoDB

Cloud & Big Data: AWS, Google Cloud, Azure, Spark, Kafka, Hadoop, Docker, Kubernetes, CI/CD, GPU acceleration

EXPERIENCE

LOCOMeX Inc

New York, USA

Software Engineering Intern | Tools - Python, Django, AWS, Selenium, JS, DevOps, DynamoDB June 2024 – May 2025

- Developed a **REST API** to score asset reports based on predefined metrics, enabling efficient backend integration.
- Engineered scalable backend services with **Django**, leveraging **Python and JavaScript** to build a user-friendly and performant IoT-based asset management system, which improved team productivity by 35%
- Engineered an automated data extraction system using **Selenium** that retrieved information from 5 websites daily, resulting in a 40% reduction in manual work entry time and improved data accuracy by 30%.

Walmart Global Tech India

Chennai, India

Technology Services Engineer I | Tools - Spring framework, UNIX, Shell Scripting, Python, SQL July 2022 – July 2023

- Worked on a large-scale microservices-based **SpringBoot application** in an Agile environment to resolve production issues, contributing to smoother operations and improved customer experience across stores.
- Analyzed complex issues to identify root causes, implemented targeted solutions, reducing system downtime by 40% and improving overall product stability.
- Automated repetitive tasks using **Shell scripting** and Python, reducing manual intervention by 50% and accelerating incident resolution time.

Software Support Engineer Intern | Tools - Linux, Java SpringBoot, Git, Cassandra

June 2021 – Aug. 2021

- Collaborated with cross-functional teams to integrate **Cassandra DB** into the existing architecture, improving data retrieval speed by 40% and enabling seamless scalability.
- Streamlined operations by automating tasks and implementing email alerts for storage issues, resulting in a 30% increase in efficiency and enabling the back-end team to optimize storage management seamlessly.

Infotix Techno Solutions

Chennai, India

Front-end Development Intern | Tools - React JS, Node.js

Jan 2021 – Mar 2021

- Developed *HR and Project Management Systems* adhering to WCAG standards reducing user onboarding time by 40%.
- Led the full-stack development of **React** applications, focusing on real-time data interactions and user experience, ensuring system reliability and low-latency performance.

PROJECTS

Multi-LLM Integration Platform | [GitHub Link](#) | *Python, React, AWS, Docker, Kubernetes*

Oct 2024 – Dec 2024

- Developed a unified platform that integrates multiple LLMs (ChatGPT, Gemini, Claude) and custom user-uploaded models, enabling seamless comparison of AI-generated responses within a single interface.
- Scaled to support 50+ concurrent users via multiple Kubernetes pods.
- Role: Led backend design and implementation using **AWS Lambda, API Gateway, and ECS**; deployed on AWS EKS with Kubernetes using containerization for scalable, fault-tolerant multi-model interactions.

Deciphering Salary Dynamics | [GitHub Link](#) | *Python, Data Science, Numpy, Pymc, Pandas*

Oct. 2023 – Dec. 2023

- Conducted a comprehensive salary determinants study using Excel and multiple linear regression models to analyze the intricacies of education, gender, experience, and age on compensation, quantifying direct and total causal effects.
- Role: Implemented cutting-edge **statistical models** to dissect complex datasets, revealing a 10% increase in salary for each additional year of professional experience, providing actionable intelligence for strategic decision-making.

Voice Prescription | [GitHub Link](#) | *Python, SpeechRecognition, PyAudio, NLP*

Oct. 2019 – Feb 2020

- Developed a Python-based GUI to convert doctor-patient conversations into structured text prescriptions, reducing manual effort by 60%. Using **NLP techniques, SpeechRecognition, and PyAudio** for real-time speech-to-text conversion and structured prescription formatting with docx, including email integration for remote delivery.
- Role: Implemented speech-based keyword detection for accurate transcription.

LEADERSHIP

New York University : Graduate Teaching Assistant - Algorithms and Data Structures

Jan 2024 – May 2025

- Taught and guided 120 students in Data Structures, providing assistance with assignments conceptual understanding.