

# Savinay Shukla

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## EDUCATION

### New York University

Master of Science in Computer Engineering

Brooklyn, NY

Sep 2022 – May 2024

### Manipal University Jaipur

Bachelor of Technology in Information Technology

Jaipur, India

Jul 2015 – Jul 2019

## EXPERIENCE

### Graduate Teaching Assistant

New York University

New York City, NY

Jan 2023 – Present

- Spearheading support in implementing distributed machine learning and deep learning systems using **High-Performance Computing (HPCs)**
- Mentored 40 graduate students in deploying machine learning and **PyTorch** applications on HPC clusters, fostering the creation of comprehensive end-to-end systems

### Full Stack Software Engineer

IBM

Bengaluru, India

Dec 2019 – Aug 2022

- Led successful migration of a legacy Apache Struts 2 web application to **Spring microservices**, enhancing scalability and performance
- Collaborated on integrating web services and prioritizing **RESTful** API enhancements to streamline the application migration process
- Leveraged **Java 8**, **Hibernate**, and **Oracle** Database to create a robust and highly available backend
- Spearheaded code reviews and QA within an **agile** and **test-driven development** environment, elevating overall code quality by 40%
- Optimized internal **CI/CD** pipelines, resulting in a 40% reduction in deployment time and a 25% increase in release frequency
- Awarded “**IBM Gold Champion Learner - 2020**” recognition for a continuous learning initiative

## PROJECTS

### Charlotte | Ollama, Langchain, Python

March 2024 – Present

- Developed an innovative personal assistant utilizing **Langchain** and leading **open-source LLMs** like Mistral and Llama 2 to optimize productivity workflows
- Engineered a **speech-to-text input pipeline** seamlessly integrated with Gmail API for efficient email management and Slack API for instant notifications
- Currently in the process of packaging these features into a platform-agnostic application using **React Native** for a containerized solution

### World On Wheels | Angular, Django, SQL, TailwindCSS, AWS

Oct 2023 – Nov 2023

- Engineered a responsive car-rental front-end application using **Angular** and **TypeScript** for an intuitive interface
- Prioritized user-centric design with responsive features, integrating **JWT authentication** and historical booking records via HTTP for personalized interactions
- Successfully deployed the application on **EC2, S3 and DynamoDB** using **AWS CDK**

### Maersk's Shipper Portal | Angular, Spring Boot, Apache Struts

Apr 2020 – Aug 2022

- Transformed a legacy web application into a microservice-based architecture on **Spring MVC**
- Enhanced API backend to seamlessly integrate dynamic report generation using Jasper Reports, resulting in a remarkable **40% boost** in report generation performance

## SKILLS

**Languages:** Java, Python, C++, JavaScript, TypeScript, SQL, PostgreSQL, MongoDB, HTML, CSS, Unix

**Developer Tools:** VS Code, Swagger, JUnit, jQuery, Mockito, Git, Version Control, Docker, UI/UX, Kubernetes

**Technologies:** Angular, React, Node.js, Express.js, Vue.js, Spring Boot, Jira, Web Services, AWS, Kafka, Jenkins