Savinay Shukla

917-815-8731 | ss16924@nyu.edu | linkedin.com/in/savinayshukla | github.com/SavinayShukla

EDUCATION

New York University   Brooklyn, NY
Master of Science in Computer Engineering   *Sep 2022 – May 2024 (expected)*

Manipal University Jaipur   Jaipur, India
Bachelor of Technology in Information Technology   *Jul 2015 – Jul 2019*

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, PostgreSQL, MongoDB, HTML, CSS
Developer Tools: VS Code, Swagger, JUnit, jQuery, Mockito, Git, Version Control, Docker, UI/UX, Kubernetes
Technologies: Angular, React, Node.js, Express.js, Spring Boot, Web Services, AWS, Kafka, Jenkins

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant   New York City, NY
New York University   *Jan 2023 – Present*
- Spearheading support in implementing distributed deep learning systems within distributed environments 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

Java Developer   Bengaluru, India
IBM   *Dec 2019 – Aug 2022*
- Led successful migration of legacy Apache Struts 2 web application to Spring microservices architecture, enhancing scalability and performance
- Boosted database read performance by analyzing queries, optimizing key columns for indexing, and achieving a 30% reduction in read time for improved efficiency
- 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 efficient backend for the microservices
- Spearheaded code reviews and QA within an agile and test-driven development environment, elevating overall code quality by 40%
- Awarded "IBM Gold Champion Learner - 2020" recognition for a continuous learning initiative

PROJECTS

World On Wheels | *Python, Django, PostgreSQL*   Oct 2023 – Nov 2023
- Engineered a micro-service architecture using Django back-end, supported by PostgreSQL, to create a responsive car-rental web application
- Formulated robust transaction strategies, ensuring the atomicity of concurrent booking operations and upholding data integrity standards
- Elevated query performance for RESTful endpoints by implementing an array of indexing techniques, culminating in a substantial reduction of response times from 2.5 seconds to a mere 90 milliseconds
- Implementing prioritized user-centric and responsive design, incorporating JWT authentication and historical booking records over HTTP for a personalized and seamless user experience
- Deployed the application on Google Cloud Platform (GCP) services, including Cloud SQL, Compute Engine, and Cloud Pub/Sub

DataViz | *JavaFX, Spring Boot, PostgreSQL*   Apr 2023 – May 2023
- Developed a data visualization tool using Java Spring Boot and JavaFX, enabling dynamic representation of diverse datasets
- Created RESTful endpoints with JWT authentication to facilitate CRUD operations, empowering users to efficiently manage their data

Maersk's Shipper Portal | *Oracle Database, Spring Boot, Apache Struts*   Apr 2020 – Aug 2022
- Transformed a legacy web application into a microservices-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