

Savinay Shukla

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EXPERIENCE

Graduate Teaching Assistant

New York University

New York City, NY

Jan 2023 – Present

- Spearheading support in implementing deep learning systems within distributed environments using High-Performance Computing (HPCs) for multiple graduate classes.
- Structured course material on Numba, Pandas, and Numpy for Computational Chemistry, impacting a class of 61 students.

Full Stack Software Engineer

IBM

Bengaluru, India

Dec 2019 – Aug 2022

- Engineered an Apache Struts powered supply chain management solution empowering 90+ clients for seamless shipment management.
- Integrated real-time report generation framework for asynchronous generation of cargo documents achieving a 40% increase in customer satisfaction.
- Collaborated on optimizing other supply-chain web services powered by Java, Hibernate and Spring Boot for a highly available backend.
- 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.

Intern

Tata Steel Pvt. Ltd.

Jamshedpur, India

May 2018 – Jul 2018

- Implemented an internal survey and feedback solution utilizing HTML, CSS, and MongoDB to capture Net Promoter Scores, streamlining company feedback processes.

PROJECTS

Event Sourcing | Java, Spring Boot

May 2024

- Designed a Spring Boot microservice replicating synchronous real-time balance calculation for credit card transactions.
- Engineered an event-driven architecture, empowering seamless handling of concurrent transaction requests with robust fail-safe event replay capabilities for each user.

World On Wheels | Angular, TypeScript, Django, SQL, TailwindCSS

Nov 2023

- Designed a responsive car-rental web application using Angular, Django and PostgreSQL, ensuring a user-friendly experience.
- Incorporated JWT authentication and retrieval of historical booking records over RESTful endpoints for a personalized user experience. Deployed the application on EC2, S3 and DynamoDB using AWS CDK.

DataViz | JavaFX, Spring Boot, PostgreSQL

May 2023

- Developed a data visualization tool using Java Spring Boot and JavaFX, enabling real-time representation of diverse datasets
- Created RESTful endpoints with JWT authentication to facilitate CRUD operations, empowering users to efficiently manage their data.

Distributed Dual-Discriminator GANs | Pytorch, Generative Models, HPC

Apr 2023

- Optimized DCGAN training pipeline by introducing an extra discriminator for faster convergence.
- Realized a 45% reduction in time for optimal FID and IS scores across CIFAR, MNIST, and SVHN datasets.
- Implemented a parameter-server architecture for distributed, multi-GPU training to scale the prototype.

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

SKILLS

Languages: Java, Python, JavaScript, SQL

Developer Tools: VS Code, Git, Version Control, Jira, Swagger, Jenkins

Frameworks and Libraries: Angular, React, Node.js, Express.js, Vue.js, Spring Boot, Django, jQuery, JUnit, Mockito

Containerization and Orchestration: Docker, Kubernetes, AWS, GCP, CI/CD, Kafka, Redis