SAVINAY SHUKLA

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WORK EXPERIENCE

AI ECD (31-employee venture-backed educational startup)   New York, NY
Software Engineer (Hybrid)   May 2024 – June 2024
- Lead a team of 6 developers for an AI-driven early childhood development (ECD) mobile application using **Flutter** for both Android and iOS platforms.
- Integrated large language models (LLMs) like Ollama via LangChain to enhance language evaluation capabilities for children. Achieved outstanding evaluation scores across **10 families** with the initial MVP.

NEW YORK UNIVERSITY   New York, NY
Graduate Employee Adjunct   Jan 2023 – May 2024
- Spearheaded support across 4 graduate classes, in implementing distributed deep learning systems using **High-Performance Computing (HPCs).**
- Guided 4 graduate and undergraduate classes in developing and deploying end-to-end enterprise applications leveraging **LLMs like Mistral AI via LangChain and LangServe.**
- Structured undergraduate course material on **Numba, Pandas, and Numpy** for Computational Chemistry, impacting a class of 61 students.

IBM   Bengaluru, India
Full Stack Engineer   Dec 2019 – Aug 2022
- Engineered a **Spring Boot** powered supply chain management solution empowering **30+ clients** for seamless shipment management.
- Integrated real-time report generation framework for asynchronous generation of confidential cargo documents achieving a **40% increase** in customer satisfaction.
- Collaborated on optimizing cross-functional supply-chain web services powered by **Java, Hibernate, Spring Boot and Oracle Database** for a highly available backend.
- Spearheaded code reviews and QA within an agile and test-driven development environment, elevating overall code quality by **60%**.
- Awarded **"IBM Gold Champion Learner - 2020"** recognition for a continuous learning initiative.

PROJECTS

WORLD ON WHEELS | Angular, TypeScript, Django, SQL, TailwindCSS
Designed a responsive car-rental web application using Angular, Django and PostgreSQL, featuring two-factor authentication. Introduced transaction and indexing strategies to improve session management and query performance by 40%. Deployed the application on EC2, S3 and DynamoDB using AWS CDK.

DATA VIZ | JavaFX, Spring Boot, PostgreSQL
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.

CLEARVIEW - Lightweight Dehazenet | Pytorch, Computer Vision, Deep Learning
Revamped the Dehazenet architecture by incorporating efficient depth-wise separable convolutions. Attained on par model performance with less than 2000 trainable parameters and 8MB model size.

EDUCATION

NEW YORK UNIVERSITY   Boston, MA
Master of Science in Computer Engineering (3.967/4.000)   Sep 2022 - May 2024

MANIPAL UNIVERSITY   Jaipur, India
Bachelor of Technology in Information Technology (8.01/10.00)   Jul 2015 - Jul 2019

SKILLS

Languages: Java, Python, Dart, JavaScript, SQL
Developer Tools: VS Code, Git, Version Control, Jira, Swagger, Jenkins
Frameworks and Libraries: Flutter, 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