YOGESH SHARMA

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EDUCATION

NEW YORK UNIVERSITY   **Sep 2022 - May 2024**
Master of Science in Computer Engineering, GPA: 3.83/4.00
- *Coursework:* Data Structures and Algorithms, Internet Architecture and Protocols, Network Security, Principles of Database Systems, Big Data, Probability and Stochastic Processes, Machine Learning, Deep Learning, Python Programming, Cryptography, Quantitative Methods in Finance

DELHI TECHNOLOGICAL UNIVERSITY   **Aug 2015 - May 2019**
Bachelor of Science, GPA: 3.3/4.0

SKILLS

Programming Languages: C++, Python, Java, JavaScript, HTML5, CSS3
Frameworks & Libraries: Django, Spring Boot, NodeJS, ReactJS, Spring, ReduxJS, ExpressJS, MaterialUI, Scrapy, Selenium, PyTorch, Tensorflow, OpenCV
Tools & Platforms: Linux, Docker, Kafka, Postman, Jenkins, AWS, RabbitMQ, Git, GitHub, JUnit, VS Code, IntelliJ, Eclipse, PySpark, HDFS
Methodologies & Practices: Object Oriented Programming, Cloud Computing, Unit/Functional Testing, Automation Frameworks, Microservices, Agile Scrum, CI/CD Pipelines
Databases & Storage: SQL, PostgreSQL, Oracle, NoSQL, MongoDB, CosmosDB, Hive, Cassandra

WORK EXPERIENCE

NEW YORK UNIVERSITY   **Sep 2023 – May 2024**
Graduate Assistant
- Leveraged Python and PyTorch in lab sessions, elevating Deep Learning skills for 250+ students, achieving a 40% increase in hands-on proficiency.
- Guided students in Computer Vision projects using OpenCV and PyTorch, enhancing their ability to apply concepts in practical scenarios effectively.
- Utilized Jupyter Notebooks to deliver Deep Learning lectures, enriching the learning journey of students with interactive real-world examples.
- Managed a Kaggle competition in Computer Vision, directly applying theoretical knowledge, which significantly boosted student engagement.

NEURON SQUARE   **Nov 2021 – July 2022**
Software Engineer
- Developed Python web scrapers using Scrapy and Selenium for dynamic data extraction, applying HTML and XPATH techniques, enhancing accuracy and coverage.
- Optimized scrapers for 40% faster data retrieval, utilizing Docker for environment consistency and Reverse Engineering for anti-scraping solutions.
- Implemented Django-based REST API interfaces for efficient data management, integrating PostGres to store volumes of scraped data securely.
- Leveraged AWS (EC2, S3, Lambda) for scalable hosting, data storage, and serverless processing, ensuring high availability of scraping services.

PIXAFLIP TECHNOLOGIES   **Apr 2020 – Oct 2021**
Software Developer Engineer
- Engineered a transformative credit risk model with Python and Django, reducing NPA by 25% and boosting market penetration by 30%, leveraging BERT ML Model.
- Integrated Paytm, Equifax, and Zerodha APIs to enhance system functionality, reducing manual efforts by 25% and optimizing operational workflows.
- Optimized MySQL and MongoDB databases, achieving a 30% reduction in response times for crucial data operations, enhancing system efficiency.
- Created robust software systems that decreased post-release bugs by 28% and sped up feature integration, improving product reliability.
- Employed AWS (EC2, S3, Lambda) and Docker for scalable, reliable deployments, facilitating continuous integration and delivery with Jenkins.
- Distributed over 30 Million rupees in loans to customers lacking credit history, demonstrating the model's efficacy and financial inclusivity.

INFOSYS LTD   **Oct 2019 – Feb 2020**
System Engineer
- Collaboratively designed a scalable application with Spring Boot and React.js, enhancing adaptability for a growing user base and ensuring high reliability.
- Built scalable, responsive APIs capable of supporting millions of users, leveraging Java and advanced programming techniques for peak performance.
- Applied Log4j and JUnit for logging and testing, markedly improving the codebase's reliability and robustness through efficient debugging practices.
- Used Maven to optimize build processes, achieving an 18% reduction in build time, thus accelerating application updates and development efficiency.

WRAPSTORE   **Dec 2019 – July 2022**
Founder & CEO
- Founded Wrapstore, an online mobile accessories store, developed its WordPress site, and optimized database performance, enhancing scalability and load times.
- Drove Wrapstore's revenue to over Rs. 3 million within two years through targeted digital marketing strategies and streamlining operational processes for efficiency.
- Spearheaded comprehensive marketing campaigns on Facebook, Google, and Instagram, increasing online traffic by 200% and acquiring over X thousand new customers.
- Managed end-to-end operations and led a cross-functional team of over 10 members, improving service delivery to achieve a 95% customer satisfaction rate.

PROJECTS

SAFE Banking System (Link)
- Built the SAFE Banking System using Django, with a responsive HTML/Tailwind CSS frontend, streamlining user interactions such as registrations and transactions.
- Integrated Celery and Redis for task automation and implemented Docker for containerization, boosting system scalability for consistent delivery across environments.

Upwork Bot (Link)
- Automated job filtering and notification via a Telegram bot, leveraging Python, Selenium, Scrapy, and Redis, which tripled job proposal opportunities and increased job acquisition chances by 60%.

Multi-Room Chat Application (Link)
- Engineered an interactive communication platform with Node.js, Socket.IO, MongoDB, and Express, facilitating real-time conversation through categorized discussion spaces, enhancing user engagement and interaction.

Uformer Model Enhancement (Link)
- Optimized the Uformer model for image restoration, integrating architectural design modifications in the Transformer block using Python, Pytorch, and CNN techniques, achieving comparable accuracy to the original model and advancing Deep Learning applications.