

Sakshi Dhawan

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Education

New York University, New York, NY, USA

Sep 2023 - Dec 2024

– MS in Computing, Entrepreneurship, and Innovation

NIIT University, Neemrana, Rajasthan, India

Aug 2017 - Jun 2021

– BTech in Computer Science and Engineering

Technical Skills

- **Programming & Databases:** Java, Python, PHP, JavaScript, TypeScript, SQL, MySQL, PostgreSQL
- **Technical Proficiencies and Tools:** Django, Flask, Spring Boot, React, Angular, Bootstrap, CodeIgniter, Mean Stack, Selenium, Swagger, Apache Kafka, Zuora, Google Cloud Functions, Hadoop, Blockchain (Carbon Credits), OpenAI, AI/ML, Computer Vision, Natural Language Processing, System Design, Networking, NodeJS
- **Cloud Platforms & DevOps Practices:** AWS, Google Cloud, Azure, Pinata Cloud, Agile, Docker, Kubernetes

Experience

Teaching Assistant (DevOps), New York University

May 2024 - Present

- Mentored 50+ students in implementing Agile and DevOps practices, including CI/CD pipeline creation, microservices development with Python/Flask, and automation with Docker and Kubernetes, ensuring code quality.
- Facilitated lab sessions, guiding students on Git version control, debugging, and automated testing to maintain code and system health, while reinforcing TDD, BDD, and microservices architecture concepts.

DevOps Engineer, BDx India Pvt Ltd, Mumbai, India

Jul 2021 - Aug 2023

- Managed a team of 4 to create and launch systems for data center delivery automation, data center power management, and internal operations, addressing over 150+ feature requests and bugs.
- Designed and deployed a scalable solution with full-stack features through efficient software development practices to automate the entire delivery process of the data center's assets using PHP, JavaScript, HTML and CSS in integration with Salesforce, optimizing workflow and reducing manual workload by 70%.
- Developed Data Center Infrastructure Management Software using PHP, JavaScript, Kafka, and Zabbix to provide real-time monitoring and alerts, enhancing asset and power management by 60% and reducing downtime by 70%.
- Revamped an internal tracking system with 120+ users by implementing robust system design and enhancing the UI, adding 20+ features utilizing Java. Collaborated with cross-functional teams to resolve inefficiencies, ensuring scalable solutions. Reduced query latency by 30% using optimized algorithms and advanced data structures.
- Conducted system onboarding training, ensuring software adoption, increasing satisfaction and usage by 40%.
- Tracked carbon emissions using Blockchain to enable efficient carbon credit trading and footprint management.

Software Developer Intern, BDx India Pvt Ltd, Mumbai, India

Jan 2021 - Jun 2021

- Developed an asset inventory with MySQL, PHP, and Zabbix, for efficient data storage and retrieval, integrated 3D/2D visualization using JavaScript, and enhanced the Customer Portal, streamlining processes and usability.
- Automated power management across 7 data centers by building and integrating secure APIs, in PHP, with the BDx Customer Portal and Zuora Billing, optimizing operations for 250+ customers.
- Designed integral modules for internal processes using ITOP, Java(Spring Boot), and PHP, digitizing workflows, adding key processes, and increasing operational efficiency by 75%.

Projects

Colorectal Cancer Prediction Model, New York University

Sep 2024 - Present

- Building a machine learning-based predictive model for colorectal cancer using advanced ensemble techniques in Python, leveraging over 3,000 clinical and lifestyle data points to improve early detection and patient outcomes.

Real-Time Environmental Monitoring, New York University

Sep 2024 - Dec 2024

- Built a Java-based system to analyze seismic, weather, and air quality data using USGS, NASA, and Kaggle datasets. Utilized Apache Hive, Hadoop, and Streamlit for large-scale data processing and real-time visualization, providing insights to support disaster management and environmental policy planning.

Certifications

– Certified Ethical Hacker, EC Council

May 2019

– Java Core and Advanced, HP

Jul 2018