Dhruv Baraiya

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EDUCATION

Northeastern University | Master of Science in Software Engineering Systems

Expected May 2026

Courses - Object Oriented Design, Data Structures and Algorithms, Database Management Systems, Cloud Computing

Boston, MA

DA-IICT | Bachelor of Technology in Information and Communication Technology

Nov 2020 - May 2024

Courses - Operating Systems, Object Oriented Programming, Distributed Systems, Software Engineering

Gandhinagar, India

TECHNICAL SKILLS

Programming Languages Frameworks & Libraries Cloud & DevOps

: Java, Python, SQL, JavaScript, Shell/Bash Scripting, TypeScript

: Spring Boot, RESTful APIs, Hibernate, JPA, NodeJS, ReactJS, Angular

: Docker, Git, GitHub Actions, Kubernetes, AWS, Microservices, Terraform, Ansible

Databases & Tools : MvSOL, MongoDB, Postman, IIRA, Mayen, IUnit, Mockito, Linux

CERTIFICATION

AWS Cloud Practitioner

- Gained foundational knowledge of AWS cloud architecture, security, pricing to support efficient cloud solution design

WORK EXPERIENCE

MD Tech Services | *Software Developer Intern*

Iul 2023 - Dec 2023

Spring Boot, Java, MySQL, JWT, CI/CD Pipelines, Jenkins, Docker, JUnit, Mockito, Postman, JIRA, GitHub

Surat, India

- Developed and maintained **RESTful APIs**, improving **user authentication** and **data communication** between systems.
- Optimized database performance by redesigning schemas, indexing, and tuning queries, reducing retrieval time by 10%.
- Implemented **role-based authentication**, enhancing session security and preventing unauthorized access.
- Automated CI/CD pipelines to streamline deployments, reducing manual intervention and minimizing release errors.
- Collaborated with **senior engineers** to apply best practices in API design, database tuning, and deployment strategies.
- Conducted unit and integration testing, resolving 8% of critical bugs pre-deployment and improving application stability.

DA- IICT | Software Developer

Jan 2024 - Jun 2024

Spring Boot, React.js, MySQL, ICICI Payment Gateway, REST APIs, Docker, CI/CD, JIRA, GitHub

Gandhinagar, India

- Built document request portal replacing university's manual email-system, enabling students to request documents digitally.
- Automated workflows for admin to manage **statuses and deliveries**, streamlining processing across India and internationally.
- Enhanced **API response handling and database queries**, improving performance for high-volume document processing.
- Collaborated with **university staff** to gather requirements and refine features, aligning with **real-time operational needs**.
- Deployed the application on **secure cloud environment**, ensuring consistent uptime and reliable access for students and staff.
- Reduced admin workload by 6+ hours a week by digitizing manual processes and improving request tracking efficiency.
- Recognized by **DA-IICT** with a **Certificate of Completion** for deploying the portal, now **officially used by the university**.

ACADEMIC PROJECTS

Scarlet Lifeline (Blood Donation Application) | Object-Oriented Design Project

Spring Boot, React.is, MongoDB, REST APIs, IWT

- Designed a modular donation system using **OOD** and **SOLID** principles for real-time donor-hospital coordination.
- Secured user data using **BCrypt** authentication and implemented **Role-Based Access Control (RBAC)** to manage permissions.
- Improved **emergency response time** by optimizing donor search queries and enhancing database efficiency.

AWS Cloud Deployment Pipeline | DevOps Infrastructure

GitHub Actions, Jenkins, Docker, Kubernetes, Terraform

- Built automated CI/CD pipelines to streamline deployments and minimize manual errors across environments.
- Deployed containerized apps with Kubernetes and Terraform, improving scalability and system observability.
- Monitored system performance using **Kubernetes dashboards**, improving **fault detection** and **resource utilization**.

Learning Management System | Full Stack Web App

Node.js, React.js, MongoDB, PayPal, Cloudinary

- Developed an LMS with role-based access, course management, and **progress tracking**, enhancing **user experience**.
- Integrated PayPal for secure transactions and used Cloudinary to optimize media delivery for 200+ users.
- Improved **frontend responsiveness** and **backend performance** to support **concurrent learners** effectively.