

Dhruv Baraiya

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EDUCATION

Northeastern University | Master of Science in Software Engineering Systems, GPA: 3.84/4.0

Expected May 2026

Courses - Cloud Computing, Object Oriented Design, Program Structures and Algorithms

Boston, MA

Dhirubhai Ambani University | Bachelor of Technology in Information Technology

May 2024

Courses - Operating Systems, Distributed Systems, Software Engineering, Database Management Systems

Gandhinagar, India

TECHNICAL SKILLS

Programming Languages : Go, Python, Java, C++, SQL, JavaScript, TypeScript, Shell/Bash
Frameworks & Libraries : Gin, Spring Boot, Django, Flask, RESTful APIs, Hibernate, JPA, React.js, Node.js
Cloud & DevOps : Docker, Kubernetes, AWS EC2, CI/CD Pipelines, Git, GitHub, Jenkins, Microservices
Databases & Tools : MongoDB, MySQL, Go Testing, pyTest, Postman, JIRA, Maven, Linux

CERTIFICATIONS

AWS Cloud Practitioner ([Link](#))

WORK EXPERIENCE

Dhirubhai Ambani University | *Software Developer*

Jan 2024 - Jun 2024

Python, Django, ReactJS, PyTest, MySQL, ICICI Payment Gateway, REST APIs, Docker, CI/CD, JIRA, GitHub

Gandhinagar, India

- Developed a **digital document request portal** to replace manual email workflows and streamline requests for **2,000+ students**
- Built over **15 RESTful APIs** using Django and MySQL to manage authentication, document handling, and admin workflows
- Collaborated with a 3-member Agile team and university staff to refine features, improving document processing **speed by 30%**
- Integrated **ICICI Payment Gateway** with AES encryption to automate fee verification and secure transactions
- Wrote **45+ unit and integration tests** using **pyTest** and validated APIs with **Postman** to ensure backend reliability
- Deployed the system to a **secure cloud environment**, reducing admin workload by **6+ hours/week** and ensuring reliable access
- Recognized by **university with a Certificate of Completion** for deploying the portal, **now officially used by the university**

MD Tech Services | *Software Developer Intern*

Jul 2023 - Dec 2023

Go, Gin, MySQL, JWT, CI/CD Pipelines, Jenkins, Docker, Go Testing, Postman, JIRA

Surat, India

- Developed and maintained scalable microservices using **Go** and **Gin** framework for secure backend operations
- Implemented **role-based authentication** with **JWT**, strengthening session security and preventing unauthorized access
- Optimized **database performance** by redesigning schemas, indexing, and tuning queries, reducing data retrieval time by **10%**
- Wrote **30+ unit and integration tests** to verify API correctness and maintain code integrity before deployment
- 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
- Identified and resolved **8% of critical bugs pre-release**, enhancing system stability and minimizing production issues

ACADEMIC PROJECTS

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

Java, Spring Boot, React.js, MongoDB, REST APIs, JWT, Object Oriented Design

- Designed a modular donation system using **SOLID** principles to enable real-time coordination between donors and hospitals
- 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 **MongoDB** query performance

AWS Cloud Deployment Pipeline | *DevOps Infrastructure*

Jenkins, Docker, Kubernetes, Prometheus, Grafana, AWS EC2

- Built **automated CI/CD pipelines** to streamline deployments and **minimize manual errors** across environments
- Deployed containerized applications to **AWS EC2** using **Kubernetes**, enabling **scalable** and **fault-tolerant** infrastructure
- Integrated **Prometheus** and **Grafana** for monitoring, improving issue detection time by **40%** and enhancing observability

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** Payment Gateway for secure transactions and used **Cloudinary** to optimize media delivery for **200+ users**
- Improved frontend responsiveness and backend performance to support **concurrent learners** effectively