Dhruv Baraiya

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EDUCATION

Northeastern University | Master of Science in Software Engineering Systems, GPA: 3.87/4.0 — **Expected 2026**
Courses - Cloud Computing, Object Oriented Design, Program Structures and Algorithms, Design Patterns — *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	: Java, SQL, JavaScript, Shell Scripting, HTML5, CSS3
Frameworks & Libraries	: Spring Boot, RESTful APIs, Hibernate, React.js, Angular
Cloud & DevOps	: Docker, Jenkins, Git, GitHub, Kubernetes, AWS, Microservices, Terraform
Database & Tools	: MySQL, MongoDB, Redis, JUnit, Mockito, Linux, Postman, JIRA
Certifications	: AWS Certified Cloud Practitioner (View)

WORK EXPERIENCE

Dhirubhai Ambani University | *Software Developer* — **Jan 2024 – Jun 2024**
Java, Spring Boot, ReactJS, MySQL, ICICI Payment Gateway, REST APIs, JUnit, Mockito, Docker, JIRA, GitHub — *Gandhinagar, India*

- Developed a digital portal to automate document requests for **2,000+ students** to replace manual email-based workflows.
- Built **30+ RESTful APIs** using Spring Boot and MySQL for user authentication, document processing, and admin services.
- Integrated **ICICI Payment Gateway** using AES encryption to securely automate fee payments and transaction verification.
- Ensured backend stability by writing **45+ unit** and **integration tests** and manually validated API behavior using Postman.
- Deployed the platform to a cloud-based environment, reducing administrative workload by **6+ hours per week** and the portal is now officially used by the university.

MD Tech Services | *Software Developer Intern* — **Jul 2023 - Dec 2023**
Java, Spring Boot, MySQL, JWT, CI/CD Pipelines, Jenkins, Docker, Junit, Mockito, Postman, JIRA, GitHub — *Surat, India*

- Developed **15+ secure RESTful APIs** using Spring Boot and MySQL for QuickFleet, a courier management platform handling user, order, and courier workflows.
- Implemented **JWT based authentication** and **RBAC** using Spring Security to enforce user permissions and secure endpoints.
- Optimized MySQL performance by redesigning schemas and adding indexes, reducing data retrieval time by around **10%**.
- Enhanced backend quality with **30+** JUnit/Mockito tests, Postman validation, and resolution of **~8%** critical QA-reported bugs.
- Created Jenkins and Docker files to support **CI/CD pipelines** and streamline deployments with the DevOps team.

ACADEMIC PROJECTS

Scarlet Lifeline (Blood Donation Application) | *Object Oriented Design*
Java, Spring Boot, ReactJS, MongoDB, REST APIs, JWT, Object Oriented Design, SOLID Principles

- Created a Blood Donation platform with donor registration, inventory tracking, and RBAC for hospitals and admins.
- Strengthened backend stability by writing 30+ tests and validating donation workflows through API testing.

Cloud Deployment Pipeline | *DevOps Infrastructure*
Jenkins, Docker, Kubernetes, Prometheus, Grafana, AWS EC2

- Designed a CI/CD pipeline using Jenkins, Docker, and Terraform to automate application deployment on AWS.
- Set up real-time monitoring dashboards with Prometheus and Grafana to visualize system metrics and detect failures.

Weather Information Service | *Backend API with Caching and Observability*
Go, Echo, Redis, WeatherAPI, Viper, Logrus, Swagger

- Developed a RESTful API in Go to fetch real-time weather data, using Redis for caching and WeatherAPI for live responses.
- Implemented configuration management with Viper, structured logging with Logrus, and API documentation with Swagger.

LEADERSHIP & ACHIEVEMENTS

- **Convenor of Programming Club, DAU** – Conducted coding sessions and organized inter-college competitions.
- **Convenor of Cultural Committee, DAU** – Led 30+ volunteers in organizing institute-wide cultural events.
- **Codeforces Max Rating** – 1250 (Pupil)