

# Yagnesh Mangroliya

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## Education

### University of Houston

Expected May 2026

Master of Science in Computer Science

Relevant Coursework: Advance Data Structures and Algorithms, Digital Image processing, Program analysis and testing

### Dharmsinh Desai University

Aug 2020 - May 2024

Bachelor of Science in Information Technology

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms

## Skills

**Languages:** C/C++, C#, Java, Python, JavaScript, TypeScript, SQL

**Frameworks:** Spring Boot, Django, Flask, Laravel, Next.js, React.js, AngularJS, Express.js, Node.js

**Databases:** MySQL, PostgreSQL, SQLite, NoSQL, MongoDB, Redis, GraphQL, Firebase

**Tools & DevOps:** Git, Github, Jenkins, Docker, Kubernetes, AWS, Azure

**Concepts:** Agile, SaaS, REST API, Microservices, CI/CD, Distributed Systems, AI/ML, LLMs, GenAI

## Work Experience

### Cubes Infotech

Aug 2023 - Aug 2024

#### Software Development Engineer

- Developed and maintained the applications using React.js, Node.js with Express.js, and MongoDB, resulting in the enhancement of a server-based authentication system and a 20% reduction in latency.
- Constructed an end-to-end CI/CD pipeline with Jenkins and Docker, automating testing and reducing deployment cycles by 40%, ensuring 99% test coverage.
- Refactored existing code and eliminated bugs, leading to a 15% improvement in the application's performance.
- ReactJS, TypeScript, Redux, NodeJS, ExpressJS, MongoDB, AWS, EC2, S3

### Exasoft Infotech LLP

May 2023 - July 2023

#### Software Development Engineer - Intern

- Designed and implemented RESTful APIs, server-side rendering with EJS, and JWT-based authentication, leading to more secure user sessions and improved system performance by 25%.
- Achieved 60% latency reduction by optimizing API response handling and MongoDB queries.

## Projects

### HairApp | Tech: ReactJS, NodeJS, ExpressJS, MongoDB, StripeAPI | LIVE

- Designed and developed a full-featured MERN-based grooming service platform that empowered salons and barber-shops to digitize appointments, improving booking efficiency and customer satisfaction.
- Integrated real-time chat, appointment scheduling, automated SMS reminders, and service management, leading to a 35% increase in booking consistency and reduction in no-shows.
- Implemented secure Stripe payment integration with backend validation and data encryption, resulting in a 30% increase in successful transactions and enhanced user trust in the platform.

### Advance IDE | Tech: ReactJS, NodeJS, ElectronJS | LIVE

- Introduced visualizers for Binary Trees and Matrices, enhancing the user's ability to comprehend and analyze different data inputs, improving user understanding by 40%.
- Designed a function suggestion system based on the user's prior code, promoting code reusability and accelerating the development process by more than 30 seconds, reducing coding time by 15%.
- Seamlessly integrated a feature allowing users to input a LeetCode question's name and instantly access comprehensive details within the IDE, improving user efficiency by 25%.

## Awards and Certificates

- Research publication:** Published paper in the International Research Journal of Engineering and Technology (IRJET) for "Speech-Based Recognition of Gujarati Numerals".
- Walmart USA Advanced Software Engineering Virtual Experience Program on Forage - April 2025
- AWS Certification:** AWS Certified Cloud Practitioner.
- Project Leadership:** Achieved 3rd national-level rank while leading the development of Project TURBINE (IDE).