Yagnesh Mangroliya

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Education

University of Houston   Aug 2024 - 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++, Java, Python, JavaScript, TypeScript, SQL
Technologies & Tools: AWS, EC2, DynamoDB, S3, SQS, Lambda, Elasticsearch, Kubernetes, Docker, Kafka, Spring, SpringBoot, Angular, ReactJS, NodeJS, ExpressJS, AI, ML, Git, Github, Microsoft excel, Postman
Databases: MySQL, PostgreSQL, MS SQL, NoSQL, MongoDB

Work Experience

Cubes Infotech   Aug 2023 - Aug 2024
Software Development Engineer

- Developed and maintained the appliations 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.
- Implemented CI/CD pipeline using Jenkins and Docker, which reduced manual deployment errors by 30%.
- 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

MigrantXperience | ReactJS, NodeJS, ExpressJS, MongoDB, StripeAPI

- Empowered lesser known professionals by building a MERN-based platform that enabled them to offer services online, resulting in broader client reach and increased visibility.
- Enabled seamless and scalable client-professional interaction by integrating real-time chat, video calling (Socket.io), scheduling, and reminders, which led to a 40% increase in user engagement and overall session duration.
- Implemented secure and user-friendly Stripe payment integration with backend validation and encrypted data handling, which enhanced transaction reliability and resulted in a 25% improvement in successful payment completion rates.

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 and 1st college-level ranks while leading the development of Project TURBINE (IDE).