

SHYAM MAKWANA

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EDUCATION

Master of Science in Computer Science

Indiana University Bloomington | GPA: 4/4

August 2022 - May 2024

Bloomington, Indiana

Relevant Coursework: Applied Algorithms, Software Engineering, Machine Learning, Computer Networks

Bachelor of Technology in Information Technology

Dharmsinh Desai University | GPA: 4/4 with Gold Medal

July 2018 - May 2022

Gujarat, India

TECHNICAL SKILLS

Languages: Python, Java, Golang, C++, C, SQL, C#, JavaScript, TypeScript
Web Technologies: React, Angular, Node.js, Django, Flask, GraphQL, Spring Boot, .Net
Databases: MySQL, SQL Server, MongoDB, PostgreSQL, NoSQL
Tools: GitHub, Git, Postman, Figma, VS Code, JIRA, Apache, Selenium
Other Technologies: Docker, AWS, DevOps, CI/CD, Bash, Linux/Unix, Cloud

WORK EXPERIENCE

Software Engineer Intern

Synopsys Inc | React, Flask, MySQL, SQL Server, Docker

May 2023 - December 2023

Bloomington, Indiana

- Developed a large-scale web application as the sole intern using Agile Methodology, integrating 15+ dynamic features and third-party APIs; resulting in a 25% improvement in speed and scalability compared to the legacy portal
- Optimized database queries and created cron jobs for data retrieval, reducing database utilization by 45%
- Transformed the portal's UI, optimized UX, and designed data models and reporting dashboards for the review of 250+ internet circuits by executive management, leading to a 34% reduction in operational issues reported
- Conducted thorough code reviews, maintained DevOps pipelines for automated unit testing, and deployed on an on-premise VM using Nginx and Bash Scripting, ensuring continuous application availability

Software Engineer Intern

Indian Space Research Organisation (ISRO) | React, C#, .NET, C++, Jenkins, MySQL

December 2021 - March 2022

Gujarat, India

- Developed a secure web application and integrated an authentication protocol using frontend frameworks and MVC Design patterns, improving privacy by 28%
- Successfully deployed the company's website to AWS, ensuring zero downtime and uninterrupted service availability
- Collaborated with security teams to identify and address software security issues, resulting in a 30% reduction in unauthorized network access attempts and enhancing overall network security

Software Engineer Intern

Four Clowns | React, Redux, Node.js, Tailwind CSS, NoSQL

May 2021 - July 2021

Gujarat, India

- Developed customer-facing responsive web designs, ensuring optimal user experience across various devices & platforms
- Maintained 98% uptime and optimized performance for 50,000+ users with Node.js and NoSQL
- Reduced page load times by 15% using Redux and ensured a smooth user experience during peak traffic

PROJECTS

BookEasy | *React, Node.js, AWS, Azure, Firebase, MySQL, Netlify*

- Devised an end-to-end Hotel Booking web application that streamlined the booking process for travelers
- Optimized data loading by integrating React Hooks and Redux, reducing loading time by approximately 15%
- Deployed backend on AWS, frontend on Netlify, and integrated Firebase for secure authentication

CollegeConnect | *React, Spring Boot, Java, Python, MySQL, RESTful API*

- Led the development of a university web platform using Spring Boot and microservices framework
- Developed Python scripts to automate faculty administrative tasks, reducing the manual effort by 30%
- Implemented a pipeline on Jenkins with GitHub integration for automated JUnit testing and deployment

FoodSaver | *React, Node.js, MongoDB, ExpressJS, GitHub, Jenkins*

- Designed a production-ready website for donating excess food with an interactive interface using MERN stack
- Improved the location accuracy to 25% by incorporating Google Map API for food pick-up and delivery
- Integrated role-based user management using REST APIs, MVC architecture, and Design Patterns

ACHIEVEMENTS AND LEADERSHIPS

- Secured 7th place in ACM ICPC Regional 2022 and a global rank of 5350 in Google's Hash Code Competition
- Awarded a Gold Medal for attaining the top position (Valedictorian) among 150+ students in the department
- Achieved All India Rank (AIR) of 09 in National Creativity Aptitude Test (NCAT)