SHYAM MAKWANA

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EDUCATION

Indiana University Bloomington — Bloomington, Indiana

Master of Science in Computer Science | GPA: 4/4 — August 2022 - May 2024

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

Dharmsinh Desai University — Gujarat, India

Bachelor of Technology in Information Technology | GPA: 4/4 with Gold Medal — July 2018 - May 2022

TECHNICAL SKILLS

Languages: Python, Java, C++, C, SQL, C#, JavaScript, TypeScript, R, Go, HTML, CSS
Web Technologies: React, Angular, NodeJS, Django, Flask, Spring Boot, .NET, MUI, Tailwind, Bootstrap, Redux
Databases: MySQL, SQL Server, Oracle SQL, MongoDB, PostgreSQL, Neo4j, NoSQL
Tools: Git, Gitlab, GitHub Actions, Postman, VS Code, Nginx, Selenium, Ansible
Other Technologies: Docker, Kubernetes, Jenkins, AWS, Azure, DevOps, Bash, Linux/Windows, Cloud

EXPERIENCE

Synopsys Inc. — Mountain View, California

Full-Stack Engineer Intern | React, Flask, MySQL, SQL Server, GitLab, MUI — May 2023 - December 2023

- Developed a full-stack web portal as the sole intern using Agile Methodology, integrating 15+ dynamic features and third-party APIs; resulting in a 25% improvement in speed compared to the legacy portal
- 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
- Integrated time-saving features and cron jobs to optimize data retrieval, reducing database utilization by 45%
- Created streamlined workflows, automated deployment, and periodic synchronization on an on-premise VM using Gunicorn, Nginx, and Bash Scripting, ensuring continuous application availability

Indian Space Research Organisation (ISRO) — Gujarat, India

Software Engineer Intern | React, C#, .NET, C++, Jenkins, MySQL, Bootstrap — December 2021 - March 2022

- Developed a secure web application and integrated an authentication protocol using web frameworks and MVC Design patterns, improving privacy by 28% in alignment with the zero-trust security model
- Enabled access to private services for 78 internal teams by integrating 7+ features & Software Defined Perimeter model
- 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

Four Clowns — Gujarat, India

Software Engineer Intern | Angular, NodeJS, Bootstrap, NoSQL — May 2021 - July 2021

- Developed dynamic web applications by integrating external web APIs using JavaScript that enabled seamless communication between front-end and back-end components
- Optimized application performance by identifying and refactoring inefficient code, resulting in a 28% increase in speed

ACADEMIC PROJECTS

BookEasy | *React, NodeJS, 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 role-based user management, integrating REST APIs using MVC architecture and Design Patterns

FoodSaver | *React, NodeJS, 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
- Implemented a pipeline on Jenkins with GitHub integration for automated JUnit testing and deployment

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 among 150+ students in the department
- Achieved All India Rank (AIR) of 09 in National Creativity Aptitude Test (NCAT)