

SHYAM MAKWANA

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EDUCATION

Master of Science in Computer Science

Indiana University Bloomington | GPA: 4/4 | TA of the Year Award

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 | Gold Medal

August 2018 - May 2022

Gujarat, India

TECHNICAL SKILLS

Languages: Python, Java, Golang, C++, C, C#, JavaScript, TypeScript, HTML, CSS

Web Technologies: React, WordPress, jQuery, 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: UI/UX, Docker, AWS, DevOps, CI/CD, Bash, Linux/Unix, Cloud

WORK EXPERIENCE

Software Engineer

Bolster AI | *Python, Rust, TypeScript, AWS, Elasticsearch*

June 2024 - Present

Santa Clara, California

- Designing and maintaining scalable APIs and backend systems, implementing security best practices, optimizing performance, and collaborating cross-functionally using Typescript, Python, SQL, microservices, and CI/CD tools

Software Engineer Intern

Synopsys Inc | *React, Typescript, Python, Flask, MySQL, SQL Server, Docker, jQuery*

May 2023 - December 2023

Sunnyvale, California

- Led the development of a full-stack web application as a team member for the cybersecurity team, integrating third-party APIs & 20+ features into a user dashboard to visualize circuit utilization with interactive graphs, charts, & Google Maps
- Optimized front-end performance with lazy loading techniques for efficient data handling of millions of data points
- Enhanced UI and UX through visually appealing web pages with React and CSS, simplifying executive management's review of 250+ internet circuits and reducing operational issues by 35%
- Conducted thorough code reviews and debugging, maintained CI/CD pipelines for automated QA testing, and deployed the application on an on-premise VM using Apache and Shell Scripting

Software Engineer Intern

Indian Space Research Organisation (ISRO) | *React, Python, C++, Jenkins, MySQL*

December 2021 - March 2022

Gujarat, India

- Single-handedly engineered a network web application for the cybersecurity team using OWASP Top 10, design patterns, and object-oriented programming, incorporating real-time analytics and device configuration
- Designed new reusable components for the dashboard, resulting in a 20% reduction in development time
- Collaborated with a team of engineers and stakeholders to enhance web application security, achieving a 15% increase in privacy and preventing potential threats and vulnerabilities

Software Engineer Intern


Four Clowns | *React, Redux, Typescript, Java, Spring Boot, jQuery, SQL*

May 2021 - July 2021

Gujarat, India

- Developed customer-facing e-commerce web designs, ensuring optimal user experience across devices & platforms
- Reduced page load times by 15% using Redux & optimized performance for 5,000+ local users with Java and SQL


PROJECTS

CyberBank | *React, Flask, Python, CyberSecurity, MySQL, Netlify* 

- Designed a Secure Banking web application, focusing on security, user-friendly interfaces, & banking operations
- Integrated secure, role-based access for 5 roles with REST APIs, MVC architecture, and Design patterns

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
- Deployed back-end on AWS, front-end 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
- Implemented a pipeline on Jenkins for automated deployment and testing of front-end and back-end code