

NIKILESH MADALA

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SUMMARY:

Skilled full-stack developer with expertise in SQL databases, cloud deployment (AWS Certified), and diverse technologies (Python, Java, Bootstrap, Node.js) and also proficient in HTML, CSS, JavaScript, React, and React Native with a focus on practical applications in computer networks and cloud environments. Experienced in data management, package testing, and generating comprehensive reporting as well as content management systems.

EDUCATION:

Virginia Tech

Aug 2023 – Dec 2024

Masters in computer science

Related Coursework: Fundamentals of Information Security, Network Security, Web Development

Anna University

Aug 2018 - Jun 2022

Bachelor of Engineering within Computer Science

Related Coursework: Computer Networks, Data Structures, Object Oriented Programming, Design and Analysis of Algorithms, Database Management Systems, Operating Systems,

TECHNICAL SKILLS:

Expertise Areas: Web development

Programming Languages: Python, Java, Linux, JavaScript, React, React Native, Bootstrap, NodeJS, Express

Databases: MySQL, Mongo DB

Technologies: Microsoft SQL Server, AWS, Figma, Adobe Express, Microsoft Office, Git

EXPERIENCE:

Cognizant

Nov 2022 - Jul 2023

(Full Stack Engineer)

- Spearheaded SQL package development, testing, and management by using tools such as SQL Server Management and Microsoft SQL Server Integration Services (SSIS) for API interactions. Integrated with frameworks like Django, resulting in a remarkable 66% reduction in deployment time during server migration.
- Slashed SQL package deployment time from 30 to 10 minutes, achieving increase in deployment efficiency and minimizing downtime.
- Streamlined strategic initiatives that led to a substantial decrease in deployment failure rates, dropping from 13% to just 9%.
- Managed daily data-load operations, maintaining an exceptional 98% data integrity rate, ensuring seamless system functionality.

Cognizant

Feb 2022 - Jun 2022

(Full Stack Intern)

- Strengthened back-end security on the online banking platform by implementing a dual encryption mechanism, fortifying user account protection, and reducing security vulnerabilities.
- Produced comprehensive project progress reports, enabling data-driven decision-making, and resulting increase of project efficiency and outcomes.
- Regularly presented progress updates to the management team, fostering effective communication, and leading to improvement in project processes based on the feedback.

PROJECTS:

Banking Management System:

- Developed the front-end for an Online Banking System with enhanced UI/UX using React and TypeScript SPA, leading to a significant 30% boost in user engagement.
- Implemented Axios for backend communication, optimizing response times, and deployed the system on Microsoft Azure, achieving 99.9% up time.

Billing Software:

- Designed and developed a Python-based Billing Software that records customer purchase data.
- Implemented a data storage mechanism to capture and analyze customer buying preferences, enabling data-driven decision-making for product inventory management.

Automatic Alerts Sender:

- Engineered an IoT system using Zigbee communication, achieving swift response time for automatic alerts, enhancing real-time monitoring capabilities.
- System Establishes a local network with nearby devices, enabling seamless communication and collaboration, resulting in improved coordination and faster emergency response.