

NIKILESH MADALA

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EDUCATION:

Virginia Tech

Aug 2023 – Dec 2024

Masters in computer science

Related Coursework: Information Security, Networking, 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: Full-stack Development

Languages: Python, Java, JavaScript, TypeScript, C/C++, SQL, Linux

Frameworks/Web Technologies: React, Redux, Node.JS, Express, jQuery, HTML, CSS, Bootstrap, Vanilla CSS

Databases: Oracle, MySQL, SQL Server, MongoDB

Technologies: AWS, Azure, Power BI, Snowflake, Figma, Git, GitHub, Bitbucket, Postman, Docker, Kubernetes

EXPERIENCE:

Cognizant

Nov 2022 - Jul 2023

Software Engineer

- Developed and maintained robust APIs using Python to manage insurance portfolios, client policies, and policy creation processes, enhancing data retrieval efficiency by 30% and reducing error rates by 20%.
- Designed and implemented user-friendly front-end interfaces with React functional components for seamless policy management and portfolio tracking, which improved user interaction and satisfaction scores by 35%.
- Built and optimized serverless backend solutions using AWS Lambda, integrating with AWS VPCs to ensure secure and scalable handling of policy data, which led to a 25% reduction in operational costs.
- Architected and administered AWS infrastructure to support high-volume policy management and client interactions, achieving 99.9% system uptime and improving overall system reliability.
- Collaborated closely with insurance specialists to implement new features and enhancements tailored to policy management needs, consistently delivering projects on time and increasing feature adoption by 40%.

Cognizant

Feb 2022 - Jun 2022

Software Development Intern

- Designed and developed customer profile update and edit pages using React, improving user experience and streamlining the profile management process.
- Created and implemented corresponding APIs for profile updates, ensuring data integrity and reducing update processing time by 20%.
- Resolved 20+ client-reported bugs, enhancing application reliability and user satisfaction.
- Documented processes, tasks, and development workflows comprehensively, creating clear and accessible documentation on Confluence to support team collaboration and knowledge sharing.

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 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.
- Created a Snowflake data warehouse to store inventory data
- Developed Power BI reports to track stock levels, forecast demand and optimize

Encrypted Communication Platform:

- Developed a secure communication platform with javascript and React, ensuring end-to-end encryption and secure data transmission using AES and RSA encryption.
- Designed interactive user interfaces with real-time encryption status indicators and implemented TLS for secure client-server communication.
- Enhanced data protection, reducing breaches and increasing platform adoption due to strong security measures.