Visruta Saripella

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Summary

Experienced software engineer specializing in full-stack development, cloud technologies, and AI/ML, delivering scalable and impactful solutions.

Education

Virginia Tech, VA   08/2023 - 12/2024
Master 's in computer science

Jawaharlal Nehru Technological University, India   08/2019 - 05/2023
B. Tech in Electronics and Communications Engineering

Certifications

- AWS Certified Developer Associate   05/2024 - 05/2027
- AWS Certified Solutions Architect Associate   02/2024 - 02/2027
- Certified professional in Containers w/ Docker, Kubernetes & OpenShift by IBM   02/2024
- Python Data Structures certificate from University of Michigan   07/2022

Skills

Languages and Frameworks: Java, Python, C, C++ JavaScript, React.js, Node.js, HTML, CSS, jQuery, Bootstrap, Microservices, Data Structures.

Tools: Git, GitHub, Jupyter Notebook, REST, PyTorch, TensorFlow, scikit-learn, Open AI GYM, SQL Server, PostgreSQL.

Platforms & Technologies: Azure, AWS, Docker, Kubernetes, EC2, MySQL, MongoDB, MATLAB, Linux, Spring Boot, Kotlin, Ansible, VPC, CI/CD Pipelines.

Work Experience

AWS Admin at Virginia Tech   09/2023 – 12/2024
- Automated infrastructure deployment using AWS CloudFormation and scripting with AWS CLI, leading to efficient and consistent deployment processes.
- Achieved cost-effective cloud operations by managing AWS services (EC2, S3, Lambda) and monitoring resources to reduce expenses by 20% through AWS Budgets and Cost Explorer.
- Implemented security best practices by developing IAM roles and ensuring compliance, resulting in a secure cloud environment.

Software Developer intern at Deloitte   06/2024 - 08/2024
- Developed and maintained complex RESTful endpoints to handle business logic, ensuring efficient backend performance.
- Designed and implemented reusable React components, creating a visually appealing and user-friendly interface.
- Managed microservices architecture and utilized Kubernetes for CI/CD pipeline automation, optimizing deployment and scalability.

Software Engineer in Micron Technologies.   07/2022 - 07/2023
- Orchestrated EC2 scaling with dynamic scripts, managing source code using AWS Code Commit, migrating from older tools like PTC to AWS.
- Containerized applications on OpenShift Kubernetes, improving resource efficiency, and implemented AWS Lambda for automating recurring tasks like backups. Monitored infrastructure with CloudWatch and enhanced CI/CD pipelines.

Projects

Hokie Event Sphere – AI-Powered Event Management Platform   08/2024 - 12/2024
- Designed and developed a centralized event management platform to unify fragmented communication and enhance event discovery for university students.
- Implemented a microservices architecture with a React.js frontend, Node.js backend, and an AI-powered recommendation system leveraging a Large Language Model (LLM).

Cloud-based Web App Deployment & Orchestration   01/2024 - 04/2024
- Planned and executed the AWS deployment of a responsive bookstore web application within a VPC, employing ELB across public/private subnets for secure, scalable front-end and back-end separation; refined infrastructure to handle 50% increase in traffic.
- Automated backend services with Java, Node.js, and MySQL RDS, and optimized scalability with auto-scaling groups and Amazon EKS, achieving 50% improved uptime, 25% reduced latency, and 30% enhanced resource efficiency.

Integrated Web Solutions for Bookstore Operations   09/2023 - 12/202
- Created a responsive web page for a bookstore utilizing HTML, CSS, JavaScript, React, and Angular libraries, resulting in a 50% improvement in system functionality and a 20% reduction in bounce rates.
- Enhanced server performance by 40%, transaction speed by 25%, and user experience by 30% using Java, Node.js, and MySQL.

Deep Reinforcement Learning (DRL)-Based Intrusion Response System (IRS)   09/2023 - 11/2023
- Engineered an automated image captioning network model in the IoT framework, Multi-access Edge Computing, Network Intrusion Detection System (IDS)and cloud server which decreased processing time by 30%.
- Elevated overall system efficiency by 25%, showcasing the successful integration of cutting-edge technologies.

Achievements

- Two-time national gold medalist swimming India.   2018 & 2019
- Honored with Indian Social Impact Award for the young active student humanitarian.   2019