SREEKAVYA KASHAMSHETTY

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EDUCATION

Indiana University Bloomington   **Aug 2022 – May 2024**
Master of Science in Computer Science, GPA: 3.97/4.0

National Institute of Technology, Bhopal, India   **Aug 2016 – May 2020**
Bachelor of Technology in Computer Science, GPA: 8.47/10.0

EXPERIENCE

Software Developer (RA): Hoosier Community Network, Bloomington, IN   **May 2024 – Present**
- Developing scalable web solutions aligned with client requirements, by employing modern frameworks, and adhering to project timelines.

Programmer Analyst (SDE): AMAZON, India   **Aug 2021 – Jul 2022**
- Revamped Java codebase to eliminate global CSRF keys, fortifying defenses against cross-site request forgery attacks.
- Implemented strategic cost-cutting measures by refining AWS infrastructure, resulting in a 18% decrease in resource usage expenses, through continuous monitoring and analysis of cloud services.
- Implemented business logic in microservices with REST apis to establish communication between different processes.
- Aligned infrastructure to meet evolving needs and coordinated the design and migration of services from **MAWS to NAWS** which contributed to reduction of overall operational costs by 44%. Documented all the migration strategies.
- Led the initiative to slash software bug count by collaborating across teams to identify root causes, ultimately creating automation scripts that cut manual work by 32%.

Member of Technical Staff: ORACLE, India   **Sep 2020 – Aug 2021**
- Created Python scripts, integrated with Apache Airflow to automate and orchestrate diverse tasks in application deployment, resulting an increase in deployment efficiency.
- Automated deployment and validation of Insight and File Server nodes across all regions by fetching latest artifacts.
- Facilitated the establishment of cloud regions expansion by conducting thorough requirement analysis, devising actionable plans, and automating intricate processes in region build out.
- Engaged in a team of 9 member group to architect and streamline development and operational workflows.
- Engineered Terraform modules for resources such as VPC, Compute, Network Firewall, and service accounts leading to a substantial reduction of manual effort by 40%.
- Managed on-call duties by exhibiting proficiency in root cause analysis and prompt identification of issues, specifically addressing patch failures post regional deployments; efforts led to fewer service disruptions.
- Crafted Ansible solutions to bring up 100 instances, ensuring uninterrupted performance and system reliability.

PROJECTS

Delivery Management System: Django | React JS | Postgresql
- Built a website allowing customers to place and track orders, agents to manage deliveries, and admins to add services.

Classic Arcade Game: JavaScript | HTML | CSS
- Designed a game with DOM manipulation requiring players to navigate through obstacles to reach a destination.

ETL Data Pipeline - Apache-Airflow | Python | EC2 | S3 | Amazon RDS | IAM
- Constructed a parallel ETL workflow using Airflow on an EC2 instance that extracts data from an open-source API and S3, transforms and stores in a PostgreSQL database.

Automated Examination System: Python | Flask | SQL
- Created an examination website with cosine similarity assessment, saving 20 hours in evaluation time.

SKILLS

Languages: Python, C++, SQL, Java, Unix Shell scripting, JavaScript, Ansible, HTML, CSS
Tools & DB: AWS Cloud Services, AWS Lambda, EC2, SQS, IAM, S3, CDK, Configuration Management, Terraform, Docker, Kubernetes, Apache-Airflow, Jira, Agile, GIT Version Control, Tableau, PostMan, Grafana
Frameworks: ReactJS, Flask, Django
Coursework: Software Engineering, Data Structures and Algorithms, Applied Machine Learning, Operating Systems(OS), Data Mining, Computer Networks, Elements of Artificial Intelligence, Database Design, Search in Information Retrieval, Object Oriented Design Programming, Distributed Computing

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified Developer Associate