

Manan Ahuja

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EDUCATION

Bachelor of Science in Computer Science

Minor in Entrepreneurship and Innovation engineering • University of South Florida • Tampa, FL • 2024 • 3.43

EXPERIENCE

Software Engineering Intern

Mphasis Limited

June 2023 – July 2023, Bangalore, India (Remote)

- As a Software Engineering Intern at Mphasis Limited, successfully deployed complex applications utilizing technologies such as Kubernetes, Docker, AWS EC2 instances, and CI/CD servers, ensuring seamless deployment and efficient container orchestration.
- Demonstrated expertise in managing network services with host IP allocation through Proxy on AWS EC2 and Route53, resulting in significant downtime reduction and improved production environment stability.
- Collaborated with teams to implement CI/CD pipelines, enabling continuous integration and deployment, while also contributing to the development and deployment of a Reddit clone, showcasing strong skills in container management and network optimization.

Systems Engineering Intern

Elite Quad Core Solutions LLC

June 2022 – August 2022, New York, NY (Remote)

- Configured 5+ firewalls on Cisco products using Palo Alto Networks and implemented company-specific SSL decryption policies to ensure secure network access for clients.
- Provided technical support to the company's biggest client by designing and coding a customized SSL decryption policy for a two-ethernet port firewall setup on the Palo Alto Networks portal using set and Linux on a Cisco Meraki 801.
- Streamlined data processing and analysis by combining data from multiple systems and generating analytical, production, and quality reports in the appropriate format, showcasing strong data management and reporting skills.

PROJECTS

Terraform-IaC for Scalable AWS Infrastructure

Mphasis Limited

- Generated reports with KPIs for utilizing Terraform technologies and developed a project for Mphasis Limited client using Terraform and IaC workflow approach to creating IAM roles and 4 EC2 instances using meta-arguments, thus contributing to improved processes.
- Utilized HCL language and Terraform's modular structure with main, variable, output, and service files for an organized and efficient codebase.
- Integrated Docker containers for application deployment, ensuring seamless scalability and manageability.

Scalable Reddit Clone Deployment on AWS

Personal • May 2023 – May 2023

- Deployed Reddit clone on AWS EC2 with CI/CD, Minikube, Docker containers, and Ingress for seamless deployment and scalability.
- Utilized CI/CD server, deployment server, and DockerHub to enhance network efficiency and streamline the deployment process resulting in a 75% decrease in environment downtime.
- Demonstrated expertise in AWS infrastructure, container management, analytical skills and network optimization for efficient application deployment.

Online Enterprise Management System

Personal • March 2023 – April 2023

- Designed and developed a full-stack CRUD operation enterprise management system with MySQL, React, Node, Spring Boot, REST API, and JDBC integrations, from scratch including creating the ER diagram. Implemented a database with at least three relations, text/web-based interfaces, and supported eight types of queries.

Doctor's Appointment System

personal • March 2023 – April 2023

- Developed a C++ program in collaboration with a partner for a pair programming assignment, demonstrating proficiency in data structures and object-oriented programming principles.
- Designed and implemented either a stack using a templated singly linked list or a queue using a templated circularly linked list, while incorporating inheritance in the project's architecture.
- Collaborated effectively with a team member, contributing equally to the project's success and adhering to academic integrity guidelines.

CERTIFICATIONS & SKILLS

Awards & Certifications: AWS Cloud Practitioners (AWS CLF-C01), Oracle SQL (1Z0-071), USF Green & Gold Scholarship

Technical Skills :C++, Java, JavaScript, Node, Spring Boot, MySQL, PL/PG SQL, React, Vue, CSS, SQL, HTML, Python, C Swift, dockers, YAML, Ubuntu, MongoDB, Powerpoint, Excel