# Manan Ahuja

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## EDUCATION

**Bachelor of Science in Computer Science**

Minor in Entrepreneurship and Inovation 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 CoreSolutions 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

• Developed project for Mphasis Limited client using Terraform and IaC workflow approach to creating IAM roles and 4 EC2 instances using meta-arguments.

• 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.

### CI/CD Pipeline Implementation

Mphasis limited • July 2023 -July 2023

• Implemented end-to-end CI/CD pipeline using Git, Jenkins, Docker, and AWS EC2, ensuring efficient software delivery following continuous improvement and troubleshooting.

• Provisioned and configured infrastructure on AWS EC2, showcasing skills in cloud infrastructure management.

• Automated testing using Django frameworks, and later utilized Ansible and Kubernetes for advanced deployment and orchestration.

### 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.

## 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**