Manan Ahuja

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# EDUCATION

## Bachelor of Science in Computer Science

Minor inEntrepreneurship and Inovationengineering •University of South Florida •Tampa,FL•Spring, 2024 • 3.37

# EXPERIENCE

## Software Engineering Intern

### Mphasis Limited June 2023 -July 2023, (Remote)

* Spearheaded the deployment of intricate applications via Kubernetes, Docker, AWS EC2 instances, and CI/CD servers, ensuring flawless execution.
* Optimized network services, significantly minimizing downtime by implementing e cient host IP allocation on AWS EC2 and Route53.
* Played an integral role in developing software and pipelines using Django(Python), APIs, and Jenkins.

## Systems Engineering Intern

### Elite Quad Core Solutions LLC June 2022 - August 2022, New York, NY(Hybrid)

* Expertly configured over 5 Cisco firewalls, reinforcing network security through SSL decryption, ensuring seamless and protected access.
* Collaborated closely with 2+ key client to tailor SSL decryption solutions for Palo Alto two-ethernet port firewalls, enhancing security measures.
* Streamlined data operations by seamlessly integrating diverse systems, enabling the generation of comprehensive analytical, and quality reports.

# PROJECTS

## Two-Tier Text storage Application

Personal • September 2023 - Present

* Developing a Flask-based two-tier text storage app with MySQL database, capable of storing over 1 million texts e ciently.
* Employing AWS EC2 to create Docker images, with Kubeadm for Kubernetes and Helm for deployment.
* Hosting the app on EKS, achieving seamless scalability, while creating and managing 2+ Docker images to streamline operations.

## Microservices Navigation App

Personal • https://github.com/mananahujaa/Microservices-in-python • August 2023 - Present

* Engineered Django microservices, harnessing 5+ Google APIs (reCaptcha, Places, Distance Matrix, Geocoding) for a robust navigation web app.
* Orchestrated full-stack development, merging Python(Django), HTML, CSS, JavaScript, AJAX and jQuery for a seamless and dynamic user experience.
* Elevated e ciency with AWS EC2 and Kubernetes, enabling dynamic scaling, load balancing, and high-performance hosting.

## Terraform-IaC for Scalable AWS Infrastructure

Mphasis Limited • July 2023 - July 2023

* Crafted KPI-driven reports, enhancing processes through Terraform (IaC), provisioning IAM roles and EC2 instances with meta-arguments for a client project.
* Leveraged HCL language and Terraform's modular structure of 4+ dedicated files, ensuring an organized, e cient codebase.
* Seamlessly scaled and managed application deployment via Docker containers, optimizing e ciency.

## 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 e cient software delivery.
* Configured infrastructure on AWS EC2, following continuous improvement and troubleshooting operations.
* 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

* Orchestrated Reddit clone deployment on AWS EC2 with CI/CD, Minikube, Docker containers, and Ingress, ensuring seamless scalability.
* Spearheaded CI/CD server and DockerHub utilization, reducing environment downtime by 75% and optimizing network e ciency.
* Showcased mastery of AWS infrastructure, container management, and network optimization for e cient application deployment.

## Online Enterprise Management System

Personal • March 2023 - April 2023

* Pioneered the creation of a comprehensive CRUD enterprise management system from the ground up, integrating MySQL, React, Node, Spring Boot, and REST API with meticulous ER diagram design.
* Crafted a robust database with a minimum of 3 relations, providing versatile support for 8 query types via text and web-based interfaces.
* Spearheaded the seamless integration of JDBC, ensuring the system's reliability and data accessibility, with 1000+ data entries.

# 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, Linux(Ubuntu), MongoDB, Powerpoint, Excel, Agile(Scrum), SDLC, SAFe**