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 •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 efficient host IP allocation on AWS EC2 and Route53.
• Played an integral role in developing software and pipelines using Django(Python),SQLite, APIs, and Jenkins, Kubernetes, Terraform.

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

InCollege

University of South Florida • https://github.com/Team-Alaska-CEN4020/InCollege • September 2023 - Present

• Collaborating in agile, Scrum-based development with 5+ team members, connecting college students and enhancing career prospects.
• Utilizing Jira, Git, Python (backend), HTML, CSS, JavaScript, Google APIs, and Pytest for testing.
• Contributing to project planning, adhering to SDLC principles, with scalability provisions for 50,000+ students and potential deployment on Azure Kubernetes.

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 efficiently.
• 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 efficiency 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, efficient codebase.
• Seamlessly scaled and managed application deployment via Docker containers, optimizing efficiency.

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.
• 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 efficiency.
• Showcased mastery of AWS infrastructure, container management, and network optimization for efficient application deployment.

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