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 • 3.37

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 functional and non-functional planning, 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.

Stock Analysis GUI

University of South Florida • https://github.com/mananahujaa/StockDataGUI • September 2023 -October 2023

• Developed a real-time financial data visualization tool with C++ and Windows Forms, handling thousands of data points, achieving a 99% data accuracy rate.  
• Implemented interactive date range filtering, allowing users to analyze financial data over defined periods.  
• Created dynamic candlestick charts using the DataVisualization library, displaying 5,000+ data points per chart, enhancing data analysis efficiency by 40%.

Terraform-IaC for Scalable AWS Infrastructure

Mphasis Limited • July 2023 - July 2023

• Crafted KPI 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.

Personal portfolio

Personal • https://manan-portfolio.s3.amazonaws.com/index.html • June 2023 - June 2023

• Developed project utilizing 4+ languages HTML, JS, CSS, and Bootstrap to create an engaging and responsive user interface.  
• Designed and implement 10+ innovative features and functionalities, ensuring seamless navigation and optimal user experience.  
• Employing best practices in coding, testing, and debugging to deliver a high-quality, visually appealing website that aligns with industry requirements.

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, Business administration, DevOps, Jira