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 project planning, adhering to SDLC principles, with scalability provisions for 50,000+ students and potential deployment on Azure Kubernetes.

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.

Camera Dataset Analysis

University of South Florida • June 2023 -August 2023

• Analyzed a diverse dataset of 1,038 camera models using Python (Pandas, NumPy, Matplotlib, Scikit-learn) to predict prices with 95% accuracy.  
• Employed machine learning (Linear, Decision Tree, Random Forest Regression) for precise predictions.  
• Automated web scraping of 3,500+ camera reviews, incorporating sentiment analysis and NLP for insightful summaries.

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.

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, Jira