

Manan Ahuja

📍 Tampa, Florida, United States ✉️ manan.10ahuja@gmail.com ☎️ 669-302-6033 🔗 linkedin.com/in/mananahujaa 🌐 http://manan-portfolio.s3-website-us-east-1.amazonaws.com/

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, SAlFe, Business administration, DevOps, Jira