# 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), 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.

### IT Intern
**Victora Auto Pvt Ltd**                                                                  June 2021 – August 2021,  India
· Engineered ERP processes, optimizing billings, inventories, and 50+ sales orders through tailored SAP codes.
· Spearheaded communication with 250+ potential clients for RFQs, fostering valuable business relationships.
· Facilitated seamless operations by providing crucial updates to marketing and technical VPs during site/client visits.

## PROJECTS

### InCollege
University of South Florida · 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.

### 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.

### 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.

### 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