

# 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

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## 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.

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## 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 in Python

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.

### Clickhouse VS ReadySet

Research • [https://github.com/mananahujaa/Clickhouse\\_VS\\_ReadySet.git](https://github.com/mananahujaa/Clickhouse_VS_ReadySet.git) • June 2023 – September 2023

- Conducted Big Data research under a professor's guidance, performing a thorough comparative analysis between ClickHouse and ReadySet.
- Employed large datasets and complex SQL queries to assess performance, revealing ClickHouse's superior speed with query execution up to 40% faster.
- Contributed data-backed insights to the project, demonstrating expertise in data analysis and database performance evaluation.

### 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.

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## 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

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