

# 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/mananahuja/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