

Manan Ahuja

📍 Tampa, Florida ✉ manan.10ahuja@gmail.com ☎ 6693026033 💻 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), 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 clients 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

In College

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.

Clickhouse VS ReadySet

Research • https://github.com/mananahujaa/Clickhouse_VS_ReadySet.git • June 2023 – September 2023

- Conducted Big Data research on a dataset of size 100,000,000+ rows, 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 in nanoseconds.

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 Terraforms modular structure of 4+ dedicated files, ensuring an organized, efficient codebase.
- Seamlessly scaled and managed application deployment via Docker containers, optimizing efficiency.

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