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.

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 nano seconds.

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.

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