UTKARSH CHOUHAN

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"Recent Computer Science graduate with a strong foundation in DevOps, cloud technologies, and full-stack web development. Experienced in designing and deploying scalable, high-performance applications using modern tools. Passionate about research around emerging technologies. Seeking to enhance technical expertise and drive innovation through a Master's program in Computer Science."

Education

Galgotias University   Sep. 2020 – June 2024
Bachelor of Technology in Computer Science and Engineering   *Greater Noida, India*
- Cumulative GPA: 8.29 (1.8 - According to Bavarian Formula)

Relevant Coursework

- Data Structures
- Java Programming
- Python Programming
- Computer Networks
- Web Technology
- Compiler Design
- Database Management
- Operating System
- Artificial Intelligence
- Analysis and Design of Algorithms

Projects

E-Learning Platform | *Python, HTML/JavaScript/CSS, Docker, Jenkins, AWS Cloud*   **2024**
- Designed and developed a robust E-Learning platform using Django. Automated deployment and continuous integration using Docker and Jenkins on AWS Cloud.
- Implemented student and teacher login systems, course management, and content uploads.
- Integrated quiz creation, submission, grading, and assignment tracking features.
- Built tools for teachers to upload chapters, manage subjects, and send notifications.

Crudder: Micro-Blogging Application | *Python, HTML/JavaScript/CSS, AWS Lambda*   **2023**
- Developed "Crudder," a feature-rich micro-blogging application where users can post self-destructing photos and text entries called "Cruds."
- Streamlined the deployment pipeline using Docker container and Jenkins.
- Leveraged AWS Lambda for serverless architecture, ensuring cost-effective and scalable deployment.

CLI Conference Booking System | *GoLang*   **2023**
- Developed a Go-based ticket booking system with real-time ticket availability updates and user input validation.
- Implemented error handling and validation to ensure proper input formatting, with ticket limits and email structure restrictions.
- Simulated email confirmations and implemented a delayed confirmation feature using time.Sleep, with the system automatically shutting down once all tickets were booked.

Experience

Binmile Technologies   **August 2023 – November 2023**
Data Science Intern   *Noida, India*
- Technologies Used: Python, pandas, scikit-learn, SQL, Apache Airflow, Tableau
- Developed and deployed a predictive model to forecast customer churn, achieving a 92% accuracy.
- Built and optimized data pipelines for ETL processes using Apache Airflow, reducing data processing time by 15%.
- Created interactive dashboards in Tableau, presenting key metrics and insights to senior management.

AICTE - EduSkills   **July 2022 – September 2022**
AWS AI-ML Virtual Internship   *Remote, India*
- Developed and deployed a sentiment analysis tool using AWS Sagemaker, AWS Lambda and Amazon Comprehend to analyze customer feedback data.
- Managed data storage, security, and access control using AWS IAM policies and S3 bucket encryption for sensitive datasets.
- Monitored AI model performance with Amazon CloudWatch and implemented automated scaling to ensure optimal performance under varying workloads.

Publications

Optimizing Cloud-Based E-Learning Platforms | *IEEE I2CT*   **June 2024**
- Conducted comprehensive research comparing cloud-based e-learning platforms focusing on deployment and performance optimization techniques.
- Evaluated cost, scalability, performance, and customization of LMS platforms.
- Applied cost-effectiveness models, case studies, and quantitative performance metrics to assess platform efficiency.
- Analyzed server-based versus serverless cloud deployment models to determine the optimal solution.

Comparing Microservices and Monolithic Applications in a DevOps Context | *IEEE ASIANCON*   **October 2023**
- Researched the integration of DevOps and microservices to enhance application development agility and efficiency.
- Analyzed the advantages of microservices over traditional monolithic architectures for large-scale applications.
- Identified best practices for implementing DevOps and microservices strategies in organizations.
- Provided insights on optimizing application growth and maintainability through modern development practices.

Technical Skills

Programming Languages: Python, GoLang, Bash Scripting
Technologies: Git and GitHub, Linux, JFrog, Jenkins, Docker, Kubernetes, JUnit
Cloud/Databases: AWS Cloud, MySQL, MongoDB
Web Development: HTML, CSS, JS, WordPress

Additional

Languages: Hindi(Native), English (C1, IELTS Academic - Band 7.5,) German (B1 - Conversational)
Interpersonal Skills: Collaboration, Adaptability, Problem-Solving

Certificates

AWS Academy Graduate: Cloud Foundations, Machine Learning Foundations, Data Analytics
KodeKloud: GoLang
GDSC-Galgotias University: 30 Days of Google Cloud - Bootcamp