Suchithra Udeda

Email : suchiudeda@gmail.com
LinkedIn - suchithra-udeda-65733b196
Mobile : 551-260-8207

Detail-oriented DevOps Engineer and Computer Science graduate with expertise in optimizing deployment processes, infrastructure management, and automated monitoring. Proven track record of improving system performance and reliability at Tally Solutions. Skilled in Python, SQL, AWS, and Kubernetes. Experienced in blockchain, big data, and machine learning with published research and strong problem-solving abilities. Seeking to leverage technical and analytical skills in a challenging role.

EXPERIENCE

Tally Solutions *Bengaluru, India*
DevOps Engineer *Jan 2022 - May 2023*

- Streamlined deployment processes for 20+ applications, reducing deployment time by 40% through efficient use of Jenkins and Docker.
- Implemented and maintained Kubernetes clusters, enhancing system scalability and uptime, resulting in a 30% improvement in application performance.
- Developed automated monitoring and alerting systems, reducing incident response times by 50% and increasing overall system reliability.

PES University *Bengaluru, India*
Junior Researcher *Aug 2021 - May 2023*

- Conducted in-depth research on blockchain technology for secure e-voting systems, achieving a 30% reduction in vote tampering incidents and a 40% decrease in event costs compared to traditional methods.
- Designed and proposed a decentralized e-voting framework using Hyperledger Fabric, eliminating the need for physical polling stations and improving system scalability by 50%.
- Authored and published a research paper in the Grenze International Journal of Engineering & Technology (GIJET), 2023, demonstrating a 25% increase in voting process efficiency and a 20% improvement in overall electoral integrity.

PES University *Bengaluru, India*
Teaching Assistant *Aug 2022 - May 2023*

- Assisted in the development and delivery of advanced coursework on network security protocols, including firewall configurations, intrusion detection systems (IDS), and encryption technologies.
- Facilitated hands-on lab sessions and practical exercises to enhance students' skills in vulnerability assessment, penetration testing, and secure network design.
- Provided academic support and guidance to students on complex network security concepts, utilizing tools such as Wireshark and Metasploit to illustrate real-world applications and threats.

CERTIFICATIONS

- **AWS Certified DevOps Engineer - Professional** *Aug 2024*

SKILLS

- **Technical Skills:** Python, C, HTML, CSS, SQL, MongoDB, PostgreSQL, Linux, AWS.
- **Software Development Tools:** Git, SVN, Visual Studio Code, IntelliJ IDEA, Eclipse, Selenium, Docker, Kubernetes, Jenkins.
- **Computer Science Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Artificial Intelligence & Machine Learning, Distributed Systems.
- **Soft Skills:** Communication (verbal and written), Problem-solving, Time Management, Teamwork and Collaboration,Adaptability.

PROJECTS

- **E-voting system using blockchain and hyper ledger fabric:** Investigated leveraging blockchain technology for secure and efficient e-voting in democratic processes. Proposed a decentralized system to address challenges like vote tampering and event costs, eliminating the need for physical polling stations. Published in Grenze International Journal of Engineering & Technology (GIJET), 2023.

- **Introduction to Big Data Flight Data Analysis:** Employed Hadoop/Oozie for processing extensive flight data spanning 22 years. Engineered and optimized MapReduce jobs to extract insights on airline

punctuality, airport taxi times, and flight cancellations. Executed progressive data analysis, scaling from one to multiple VMs, and measured workflow execution times. Delivered comprehensive performance analysis and results, demonstrating adeptness in handling large-scale data processing and workflow optimization.

- **Painting vs Photography Classification:** Led research on automating classification of paintings and photographs using Convolutional Neural Networks (CNNs). Developed models achieving high accuracy, with implications for digital curation and art authentication. Addressed ethical considerations and proposed future directions for improving model architectures and addressing cultural biases.

PUBLICATIONS

- Aradhya Janagani, B., Suchithra, U. and Mohan, H., 2023. **E-Voting using Blockchain**. Grenze International Journal of Engineering & Technology (GIJET), 9(2).**https://scholar.google.com/E-voting using blockchain**

EDUCATION

- **New Jersey Institute Of Technology** *Newark, NJ*
  MSc In Computer Science , GPA : 3.33. *Sep 2023 - Dec 2024*
  Courses : Operating System, Big Data, Artificial Intelligence, Data Structures and Algorithms.
- **PES University** *Bengaluru, India*
  B.Tech in Computer Science with specialization in Network and Cybersecurity, *Aug 2019 - May 2023*
  GPA : 8.18