Sai Sharan Karam

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Education

Troy University, Troy, AL   Aug 2022 - May 2024
Master of Computer Science -Network and Information Security   GPA : 3.5
Deep Learning, Machine Learning, Data Mining, Software Engineering, Advanced Algorithms, OS

Osmania University (Vasavi College of Engineering), Hyderabad, India   Aug 2015 – May 2019
Bachelor of Engineering in Computer Science   GPA : 7.5/10
AI, Image Processing, Data Structures, Cloud Computing, Distributed Systems, OOPS, DBMS

Publication

- **Data Transfer Methods and Strategies: Unified Replication Model Using Tree** Designed a novel unified replication model using trees to address the challenges of data consistency and fault tolerance in distributed database systems. *published in Proceedings of the Second International Conference on Advances in Computing Research (link-ACR'24)*

Experience

Infor Pvt Ltd, India - Software Engineer   July 2019 - Aug 2022
- Developed and maintained scalable microservices using Core Java and Spring, enhancing performance and reliability of Infor ION (IPAAS), resulting in a 15% improvement in system uptime and a 20% reduction in response times.
- Led architecture discussions and design reviews for migration project of the OneView tool from AWS to Azure, increasing customer base by 10% due to Microsoft-centric solutions.
- Designed and implemented RESTful APIs for seamless data integration, increasing data exchange efficiency by 30%.
- Collaborated with cross-functional teams to translate feature specifications into implementable code, fostering a collaborative and efficient development process.
- Utilized Spring Security and OAuth 2.0 for robust authentication and authorization, significantly enhancing security.
- Developed CI/CD automation for build & deployment processes using Jenkins, reducing deployment time by 30% and increasing development productivity.
- Managed cloud platform services, reducing AWS S3 storage costs by 28% and optimizing database performance with efficient ES schemas and queries, leading to a 25% reduction in query execution times.
- Mentored and coached junior engineers, fostering a culture of continuous learning and improvement making them meeting sprint deadlines.

Defence Research & Development Organisation, India | *Internship*   May 2017 – Feb 2018
- Developed a Java-based data transmission application for secure military communications, focusing on networking and data stream optimization. Contributed to enhancing the security and efficiency of data transmission within a critical national defense infrastructure.
- Maintained high efficiency in listing down thousands of devices in an IP network and created an XML to store them, providing a CSV format output for comprehensive network device monitoring.

Projects

- **Personal portifolio:** Created and deployed personal portifolio page using NextJs and Vercel deployment, it was my first project in my learning curve of ReactJs. (*link*)
- **Celeb Like Me - Deep Neural Network for Image Classification:** Developed a CNN and Neural Network-based application that matches users' faces with Hollywood celebrities, showcasing the practical application of deep learning techniques in image recognition with 93.8% accuracy. The dataset was used from kaggle and it was formulated in such way that it recognised only white, brown and black people. (*link*)
- **Online Learning Management:** Developing a comprehensive online learning platform with role-based access, course management, and secure user authentication. Implemented features for instructors to create and manage courses, enhancing the overall educational experience. (*link*)

Technical Skills

Languages: Java, Python, SQL, JavaScript, TypeScript, C++, HTML, CSS, Go, Bootsrap, JSON, ESQuery, Groovy, Shell scripting, Object-oriented programming paradigm.
Frameworks/Technologies: ReactJs, NextJs, Angular, Spring Boot, Spring Security, OAuth 2.0, Hibernate, REST APIs, Microservices, RabbitMQ, Linux Server, JSON, flask, scikit-learn, Model Trainig, MySQL, Oracle, Postgres, Elasticsearch, Apache Kafka, Docker, Kubernetes.
Cloud Platforms: AWS (EC2, S3, SQS, IAM), Google Cloud Platform(pub/sub), Azure(Service Bus).
Development Tools: VS Code, Eclipse, IntelliJ, Jira, Tomcat, Git, GitHub, Jenkins, Apache Tomcat, Agile.