

Sharani Regonda

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EDUCATION

California State University, Long Beach - *Master of Science, Computer Science*

Course Work: Distributed Systems, Design Patterns, Software Engineering Practices

Aug 2022 - May 2024

Anurag Group Of Institutions - *Bachelor of Engineering, Computer Science*

Course Work: Object-Oriented Programming, Server-Side Programming, Database management systems

Aug 2017 - Jul 2021

WORK EXPERIENCE:

Software Engineer Intern, WarrantyMe

May 2023 - Oct 2023

- Developed and maintained backend services using .NET Framework and ASP.NET, optimizing system performance.
- Improved API response times by 30% using caching solutions like Redis and in-memory data storage.
- Designed and implemented role-based access control using ASP.NET Identity and OAuth2 for secure authentication.
- Built responsive UI components using React.js and integrated them with .NET backend services, enhancing user experience.
- Created automated testing scripts using NUnit and Selenium, achieving 95% test coverage and improving reliability.

Software Developer, Tata Consultancy Services

Jul 2021 - Jun 2022

- Developed enterprise-grade microservices using .NET Core, improving system modularity and scalability.
- Built and automated CI/CD pipelines with Jenkins and Kubernetes for .NET applications, reducing deployment times by 50%.
- Implemented logging and monitoring frameworks in .NET Core using Serilog and Application Insights for enhanced debugging capabilities.
- Used Entity Framework Core and LINQ to optimize database interactions, improving query performance by 40%.
- Automated infrastructure provisioning using Terraform, enhancing scalability and reducing deployment time.

Software Engineer, WarrantyMe

May 2019 - May 2021

- Designed and implemented SFTP file transfer solutions using .NET Core and AWS Transfer Family, enhancing secure file exchanges.
- Developed RESTful APIs using ASP.NET Core and integrated them with AWS S3 for file storage, ensuring scalability and performance.
- Monitored application health and performance with Prometheus and Grafana, enabling proactive identification and resolution of issues.
- Refactored legacy .NET Framework applications into containerized solutions using Docker, improving portability and simplifying setups.
- Built Splunk and Dynatrace dashboards for monitoring HTTP response codes, error rates, and CPU metrics, ensuring system reliability.

PROJECTS

Simulation of TCP using Sliding Window:

Networking, TCP, Java, Python

- Implemented TCP protocol simulation with sliding window algorithm for packet loss detection (0.01% probability), implementing periodic retransmission for reliability and congestion control.

Gesture Recognition Dynamics: Unveiling Video Patterns with Deep Learning

LSTM, CNN, Mediapipe

- Developed a hybrid neural network model to detect the activity in videos by integrating LSTM and CNN architectures and utilized the MediaPipe pose estimator to extract key body points from video frames.

TECHNICAL SKILLS

Languages and Web Tech

: Java, Python, C, JavaScript, J2EE, Django, PHP, SQL, C++, C#, NetJS.

Frameworks and Methodologies

: Spring Boot, JEST, JUnit, Selenium, Microservices, Agile, REST, Spark.

Cloud & DevOps Tech

: AWS, Docker, Kubernetes, Prometheus, Grafana, Jenkins, ELK, Scala, CI/CD.

Database and Tools

: BigQuery, Oracle, MySQL, MSSQL, Postgres, Cockroach DB, MongoDB, Tableau.