

Lakshmi Narasimha Sai Narne

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Summary

A recent MSCS Grad, equipped with a diverse skill set encompassing **web application development, machine learning, and cloud computing**, Certified in **Azure, AWS and Terraform**. Actively seeking an entry-level position in the development field to leverage technical expertise and a collaborative mindset for contributing to innovative projects and continuing professional growth as a developer.

Experience

University of Houston

Teaching Assistant

January 2023 – May 2023

Houston, USA

- Instructed 2 courses, SCLT 6320 Procurement Strategies and SCLT 6397 Urban Informatics for Logistics Management with 40 students; duties include grading assignments, providing feedback to the students and offering additional support via emails.
- Aided in the revision of the class notes, prepared grading criteria, delivered 2 guest lectures on applications of machine learning in supply chain, enhancing students' coding proficiency and resulting in a 25% performance improvement.

University of Houston

Research Assistant

September 2022 – May 2023

Houston, USA

- Investigated socio-demographic factors and teenage driver's license acquisition patterns for Millennials and Gen Z with a team of 3 professors.
- Implemented a variety of Machine Learning models in Python, including **logistic regression, SVM, Random Forest, Gradient – Boosting, Extreme Learning Machines**, and **neural networks**, achieved an average accuracy improvement of 10%.
- Contributed to research, achieving a model accuracy 89% after tuning and dataset balancing, also drafted the initial **research paper**.

Cognizant

Programmer Analyst Trainee

February 2021 – July 2021

Hyderabad, India

- Developed a scalable application with **microservices** architecture using **Entity Framework, ASP.NET Core Web API, Postman API** and **Microsoft SQL Server** Database; optimized data retrieval, resulting in a 30% decrease in query execution time.
- Utilized **Microsoft Azure Logic Apps** to host 4 **web APIs** and used continuous integration service in order to automate the entire process of loading the latest build code and test files.
- Leveraged **NUnit** and **Moq** to develop comprehensive mock **Web APIs**, streamlining the process of interacting with targeted web page elements; significantly improved testing accuracy and reduced bug discovery time by 40%.

Projects

AWS-hosted Portfolio Website Deployment | AWS, Terraform, VS Code

- Orchestrated the deployment of an existing portfolio website on an **Amazon EC2** instance using **Terraform**, optimizing resource provisioning for cost-efficiency.
- Configured **NGINX** as the web server for rapid content delivery, while also implementing SSL encryption for enhanced website security.
- Established an **IAM user** with tailored **policies**, ensuring secure access for website maintenance, updates, and automated tasks; streamlined web application upkeep, scaling, and enhanced security protocols.

Movie Info Website | React, VS Code

- Created an interactive movie information website using **React**, delivering a user-friendly platform for exploring movie details, genres, and ratings.
- Designed a **Jenkins pipeline** for continuous integration and deployment, ensuring automatic project builds and **Docker image** creation upon GitHub updates.
- Utilized **Docker** to containerize the application, seamlessly deploying updates to **Docker Hub** via the pipeline, maintaining an up-to-date Docker image for efficient production release.

Fuel Price Prediction Web App | C#, Visual studio

- Led a 3 member team and developed a web application that calculates fuel rates using historical data and predefined criteria.
- Engineered a MVC architecture with **ASP.NET Core** and used **Entity Framework** to seamlessly manage **CRUD** operations within the database and employed **Microsoft SQL Server Management Studio** for efficient database creation and data storage.
- Achieved a code coverage of 95% after using **NUnit** and **Moq** to craft mock Web APIs for testing.

Education

University of Houston

Master of Science in Computer Science- Houston, TX (**Recipient of 50% Tuition Fee Scholarship**)

January 2022 – May 2023

GPA: 3.7/4

RVR & JC College of Engineering

Bachelor of Technology in Computer Science and Engineering - Guntur, India (**Recipient of 100% Tuition Fee Scholarship**)

August 2017 – July 2021

GPA: 9.38/10

Certifications and Technical Skills

- Certifications:** [HashiCorp Terraform](#), [Microsoft: AZ-900](#), [AWS Certified: Solution Architect Associate](#), [Bootstrap4 by Coursera](#).
- Technical Skills:** C#, C, C++, Python, Java, R, Azure, AWS, HTML, CSS, Bootstrap, JavaScript, React, ASP.NET Core, Entity Framework, MySQL, SQL server, Docker, Jenkins, Terraform, Git, Kubernetes, Scikit-Learn, Numpy, Pandas, Matplotlib, TensorFlow, Keras, ELM, SHAP.