

Lakshmi Narasimha Sai Narne

+13464940358 | nlarasimhasai15@gmail.com | <https://www.linkedin.com/in/sainarne15/> | <https://github.com/sainarne15>
<https://sainarne15.github.io/>



Summary

A recent MS Computer Science Graduate, equipped with a diverse skill set encompassing **web application development, machine learning, and cloud computing**. Certified in **Azure, AWS and Terraform**. Actively seeking entry-level SDE and Cloud Engineer roles.

Education

University of Houston, Houston, TX

January 2022 – May 2023

Master of Science in Computer Science (Recipient of 50% Tuition Fee Scholarship)

GPA: 3.7/4

Courses: Statistical Methods in Research, Digital Image Processing, Big Data Analytics, Software Design, Machine Learning, Artificial Intelligence, Computer Architecture, Data Analysis in Construction Management, Principles of Cyber Security, Advanced Numerical Analysis.

RVR & JC College of Engineering, Guntur, India

August 2017 – July 2021

Bachelor of Technology in Computer Science and Engineering (Recipient of 100% Tuition Fee Scholarship)

GPA: 9.38/10

Courses: Computer Networks, Advanced Data Structures, Objected Oriented Analysis and Design, Computer Organization, Unix Programming, Software Engineering, Cloud Computing, Web Services, Database Management Systems, Machine Learning.

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, ASP.NET Core Web API, Entity Framework, MySQL, SQL server, NUnit, Moq, Docker, Jenkins, Terraform, Git, Kubernetes, ASP.Net Core Web API, Bash/Shell, YAML, Groovy.

Experience

University of Houston

January 2023 – May 2023

Teaching Assistant

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 and logistics, enhancing students' coding proficiency and resulting in a 25% performance improvement.

University of Houston

September 2022 – May 2023

Research Assistant

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 of 89% after tuning and dataset balancing, also drafted the initial **research paper**.

Cognizant

February 2021 – July 2021

Programmer Analyst Trainee

Hyderabad, India

- Developed a scalable application with **microservices** architecture using **Entity Framework, ASP.NET Core Web API, Postman API, JWT authentication**, 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 built in **React** 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.