Lakshmi Madhuri Sakhamuri

✉ lsakhamuri1@student.gsu.edu   in linkedin.com/Madhuri   leetcode.com/Madhuri   📞 (+1)470-712-0566

Education

Master's in Computer Science, CGPA : 4.0/4.0	**Aug 2023 – May 2025**
Georgia State University	*Atlanta, Georgia*

Bachelor's in Computer Science & Engineering, CGPA : 9.15/10	**July 2017 – June 2021**
R.V.R & J.C. College of Engineering	*Andhra Pradesh, India*

Work Experience

Graduate Teaching Assistant	**September 2023 – Present**
Georgia State University	*Atlanta, Georgia*

- Instructing undergraduate freshman in Python Programming Lab and designing lab assignments.

Full Stack Engineer	**August 2021 – August 2023**
Cognizant Technology Solutions	*Chennai, India*

- Developed a Dotnet RESTful API for automated ServiceNow incident creation, reducing manual workload by 3 hours weekly and enhancing operational efficiency.
- Coordinated with cross-functional teams including stake holders and customers to develop multiple end-to-end use cases through agile methodologies from research, prototyping and developing clean code, testing, deploying, documenting.
- Improved job monitoring and optimised the scheduling of jobs using Airflow that made the data load faster by 35% thus successfully transitioning from Ansible to Airflow. Further, viewing the metrics using Elasticsearch.
- Reduced the code smells to 0.2% which improved the code quality and development time.
- Pioneered the integration of CHATGPT's API into our project dashboard to assess various scenarios, showcasing creativity and the use of advanced technology for project improvement..
- Championed weekly team knowledge-sharing sessions with PowerPoint presentations, focusing on business solutions, enhancing inclusivity, engagement, and collective problem-solving.

Full Stack Engineer Trainee Intern	**Feb 2021 – July 2021**
Cognizant Technology Solutions	*Chennai, India*

- Developed an ASP.NET Core MVC application for risk assessment calculations, showcasing problem-solving skills, practical solution development and team work.

Projects

Home-Made Recipe Bowl | *Python, ML, Pandas, Sci-kit, BeautifulSoup* | ⍟ Recipe-Bowl Code   **2023**

- Implemented a neural network for recipe generation in Homemade RecipeBowl, showcasing machine learning proficiency
- Led full-stack development of Homemade RecipeBowl, demonstrating skills in Python, React, CSS, and JavaScript.

Twitter Sentiment Analysis | *Natural Language Processing and Machine Learning*   **2021**

- Led a team of three and analyzed the sentiment of tweets from NLTK by categorizing them from highly-positive to highly-negative using multiple Machine Learning algorithms.
- Achieved an overall accuracy of 90% using Support Vector Machine.

AdaptNet: Revolutionizing Network Dynamics | *Python, VS, Splay Tree, Self-Adjusting* | ⍟ AdapNet Code   **2023**

- Conducted research to implement Adaptive RanDiSplayNet, an advanced algorithm for network reconfiguration, which intelligently adjusts splaying probability on a per-message basis, significantly optimizing communication costs in varied source-destination traffic patterns.
- Adaptive SplayNet showed better accuracy than LazySplayNet in dynamic high-traffic environments by 20%.

Technical Skills

Programming Languages: Python, C, C#, C++, Java, SQL, HTML, CSS, Ruby on Rails, BootStrap, Bash.

Software & Frameworks: ASP.NETCORE, Flask, Kafka, Airflow, MongoDB, PostgreSQL, Elasticsearch.

Tools & Platforms: VS Code, Visual Studio, Git, Azure, Jira, Postman, Confluent, Swagger, Microsoft Suite, Kubernetes

Relevant Coursework

Data Structures, Design & Analysis of Algorithms, Networking, Object Oriented Programming, Operating Systems, DBMS, Software Engineering, Machine Learning, Calculus, Discrete Mathematics, Distributed Systems, Statistics, Cloud Computing

Volunteer Experience

Association for Computing Machinery | *Event Head*   **2019**

- Organised the hour of code event for school kids to introduce them to the world of Computer Science.
- Conducted a hands-on workshop on programming and explained the concepts using scratch.