

LAKSHMI GAYATHRI RANGARAJU

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Education

Clemson University

Clemson, SC, USA

Master of Science, Computer Science (3.92/4)

August 2022 - May 2024

- **Coursework:** System Admin and Security, Network Technologies and Security, Foundations of Software Engineering, Machine Learning, Data Mining, Deep Learning in computer vision, Statistical Methods, Applied Data Science, Machine learning - Implementation and Evaluation.

Technical Skills

Languages:	Python, Java, C, C++.
Libraries:	NumPy, Pandas, PyTorch , Sci-kit Learn, Matplotlib, Seaborn.
Backend/Testing Frameworks:	Spring, Dagger, JUnit, Mockito.
Cloud Technologies:	Amazon Web Services - SQS, Lambda, SNS, EC2, CloudFormation.
Web Development:	HTML, CSS, Bootstrap, React, Plotty Dash, SQL .
Tools:	Github, Microsoft Powerpoint , Microsoft Excel .
Platforms:	Windows, Linux.
Certifications:	Business English (BEC) at vantage level by Cambridge, Google Cloud Computing Foundations , Blockchain Architecture Design and Use Cases, Deep learning specialization.

Relevant Experience

Clemson University

Clemson, SC

Graduate Research Assistant

September 2022 - Present

- **Optimized** Search Engine with Dr. Da Li, Assistant Professor, Civil Engineering Department. Achieved a **remarkable 30%** increase in search process effectiveness by implementing optimizations. Introduced innovative features allowing users to apply filters to their search results, optimizing the user experience.
- **End-to-End Development** of Android Applications with Dr. Adam Hoover, Electrical Engineering Department. **Solely responsible** for building the entire code base for mobile and watch Android applications. The applications leverage sensor data to enable users to seamlessly track their kilocalorie intake.
- **Technologies** - Machine Learning, Plotty - Dash, Python, Android development, Java.
- **Skills** - Agile Methodologies, Cross-disciplinary Collaboration, Collaborative Problem-Solving, Algorithm Design.

Amazon

Hyderabad, India

Software Development Engineer

August 2021 - July 2022

- **Enhanced** privacy compliance of a service by **10%** through meticulous development and rigorous testing of robust backend code, aligning with industry standards.
- **Improved** backward compatibility and API workflow efficiency by an **30%** during an internal service framework migration. Created high-quality test cases to ensure robustness and seamless integration.
- **Elevated** team **operational excellence** by diagnosing root causes for service issues, implementing preventive measures, and conducting thorough code reviews. Actively contributed to creating a resilient and reliable system.
- Led the **design and implementation** of a comprehensive automated notification system from scratch, significantly increasing developer productivity by **20%**. Performed **high-level design** to ensure system scalability and maintainability. Successfully migrated from legacy systems to streamline processes.
- **Automated** the configuration transfer process between service environments, improving development speed by **20%**. Contributed significantly to the creation of new service environments while adhering to best practices.
- **Technologies** – Java, Spring, Dagger, AWS, Junit, Mockito, Git.
- **Skills** - Meticulous design, Identifying root causes, Preventive measures implementation, Code review, High-level design, Developer productivity improvement, Adherence to best practices.

Amazon

Hyderabad, India

Software Development Engineer - Intern

January 2021 - August 2021

- **Championed** the development of an efficient Model-View-Controller (MVC) application, **leveraging design principles** to achieve a remarkable **40%** reduction in manual effort for gathering essential issue information from clients.
- **Technologies** – **React**, Java, Spring, Git, Junit, Mockito.
- **Skills** - Leadership in application development, Design principles application, Efficient application design, Problem solving, Achievement of a significant reduction in manual effort.