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*

Technical Skills

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

Relevant Experiences

Clemson University   Clemson, SC
Graduate Research Assistant   *September 2022 - Present*

- **Optimized** Search Engine with Da Li, Assistant Professor, Civil Engineering Department. Achieved a **remarkable 30%** increase in search process effectiveness by implementing optimisations. Introduced innovative features allowing users to apply filters to their search results, optimising 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 for collecting sensor data.
- **Technologies -** Machine Learning, Plotty - Dash, Python, **Android development**, Java, AWS-EC2.

Amazon   Hyderabad, India
Software Development Engineer   *August 2021 - July 2022*

- **Enhanced** the privacy compliance of service by **10%** through careful development and thorough testing of a strong backend code, in alignment 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 creating new service environments while adhering to best practices.
- **Technologies -** Java, Spring, Dagger, AWS, JUnit, Mockito, Git.

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.

Other Experience

Academic Project   Hyderabad, India
Timely   *March 2018*

- Developed a **PHP-based** website integrated with an **SQL** database, strategically aimed at optimising delivery centre operations through the automation and optimisation of delivery allocations. Demonstrated effective system design, categorising deliveries based on routes and customer availability slots, leading to a substantial **20%** reduction in manual workload.