Lalitha Priya Garigapati

Email: priya.garigapati@gmail.com
Mobile: +1 7166581283

EDUCATION

- **University at Buffalo** — Buffalo, US
  Masters - Computer Science; — *Aug 2022 - Dec 2023*
  Courses: *Intro to Machine Learning, Introduction to Computer Vision and Image Processing, Blockchain Application Development , Analysis of Algorithms*

- **K L University** — Guntur, India
  Bachelor of Technology - Computer Science; — *July 2015 - May 2019*
  Courses: *Machine Learning, Artificial Intelligence, Parallel Algorithms, B Tech Thesis*

SKILLS SUMMARY

- **Languages:** Java, JavaScript, Python, MySQL, Matlab, C++, C, Solidity, HTML
- **Frameworks:** Industrial: React, REST, Spring, Azure, Drupal | Academic: PyTorch, OpenCV, GIT

EXPERIENCE

- **UNITED HEALTH GROUP | Software Engineer** — Hyderabad
  Optum & OGS — *July 2019 - Aug 2022*
  - **Dynamic Search** : owned the design and development of a robust search function that allows users to locate documents within a virtual file system quickly. The search occurs in real-time and efficiently searches through a huge storage space, including millions of files and folders. To ensure this, I implemented the search algorithm using both client and server sides to compute and proved that algorithm to be at theoretically optimum. While the backend has 500ms round trip latency, due to this blend user sees it as real-time. It has been successfully deployed, and it has been well-received by a large number of users since 2020.
  - **Cloud Migration**: worked on the migration of terabytes of on-premises data to Azure storage. The data being migrated is confidential and essential for the operation of the system, so the migration process was carefully planned to ensure the system's security, integrity, and availability. To ensure that the migration did not negatively impact the system, I thoroughly analyzed the code changes and deployments.Through my efforts, I was able to improve time-to-productivity by 30%, enabling the system to continue operating smoothly and efficiently.
  - **RxComet onboarding Portal**: developed and implemented a sophisticated form as part of the Vendor onboarding process for UHG, which is used to onboard new clients. I was responsible for the entire project, including the front-end development using React, the back-end development using Java, and the form deployment
  - **Contributed to Day-to-Day Operations and Engineering Tasks**: ● focused on reducing latency, improving the code's quality and test coverage, and resolving operational issues and tasks assigned to the team. I also worked on addressing code smells to improve the overall health of the codebase. ● Implemented DevOps practices, including continuous integration/continuous delivery (CI/CD) pipelines, version control with Git. ● additionally, I participated in hackathons where I used machine learning techniques to create an application to guide fitness workouts.

KEY ACADEMIC WORKS

- **Created an application for Identifying Fake Products in the Supply Chain System** : Used blockchain technology to verify product authenticity and tracking through a decentralized system built with Solidity, MySQL, React, and MetaMask. The app included a Bonafide token for making purchases, and used a distributed ledger for data security and immutability.

- **Designed a Fitness Tracking Application based on wearable data sensors**: (Dr. Ninad D. Sathaye) Designed and developed an application that utilizes acceleration and gyro sensors data from a cell phone to generate a spectrogram, which is then evaluated by a trained Convolutional Neural Network. The application recognizes and guides the workout done by the user.

- **Created a model to detect the possibility of negative influences on users in Social Networking** : I applied Graph Convolutional Networks to label nodes in social networking graphs that are composed of nodes representing user history. These labeled nodes were then used in classification with the GCN output to detect negative influences.

- **Generating Sundial with MatLab**: I have used calculations of Sun Vector and transformed into ECEF frame with the help of change of reference frame transformations. This vector is used for deriving path traced by the Sun on a sheet of paper.

RELEVANT ACHIEVEMENTS AND EXTRACURRICULARS

- Awarded 2 Star Awards and a Spot Award for my work on Insurance Forms and Data Migration @ Optum
- Ranked 1st in UHG's yearly hackathon through my proposal, design, and development of a workout classification application
- A member of the Computer Science Club.
- As a member of the women's forum @ K L University, I organized the intercollegiate female fest 'FEMFLARE 2017'
- Secured Excellence in National Creativity Aptitude Test (NCAT) conducted in my sophomore year.

CERTIFICATIONS

- Improved my skills in courses like Machine Learning, Artificial Learning, Web Development, Design Patterns, and others along with achieving a certificate through Skillsoft
- Oracle certified Associate , Java SE8 programmer
- Certified as Senior System Architect in PEGA