

# RAVURI LALITHA KRISHNA

## CHAITHANYA

### SOFTWARE ENGINEER

---

Hyderabad, Telangana 530018 • +91 9010583303 • chithanyark@gmail.com

---

#### SUMMARY

Highly motivated software engineer with almost 2 years of experience working in a startup, contributed to its growth by wearing multiple hats, including Full-Stack Python Developer, Full-Stack Java Developer, Backend Developer in Golang and Big Data Engineer. Passionate about continuous learning and staying at the forefront of computer science advancements, with a keen interest in mastering emerging fields such as deep learning, machine learning, and generative networks. A fast learner with a genuine enthusiasm for adopting new technologies and applying them to create impactful applications.

#### EXPERIENCE

##### Software Engineer in BigData and Infrastructure Team

Nov 2022 - Present

Uptycs • Hyderabad, TELANGANA

- Currently working in LLM development using llama 3 for Natural language to SQL generation on runtime.
- Collaborated on a high-impact project leveraging Apache Spark Structured Streaming Application to optimize data processing and analysis, resulting in enhanced efficiency and insights for the team.
- Led a comprehensive project focused on cost reduction, achieving a remarkable 40% decrease in production costs through resource conservation and merging of various Spark Ingestion Applications.
- Engineered a solution to optimize data processing efficiency and reduce resource consumption by implementing data format changes at the Kafka producer side.
- Aided in the implementation of a sophisticated centralized architecture aimed at reducing operational costs across the organization's tech stacks.
- Contributed to the development and implementation of micro-services architecture, including Kafka integration. Projects using micro-services are like producer-consumer architecture for various applications, anonymization tools for gathering data etc.
- Designed and engineered a sophisticated laboratory monitoring system, integrating Flask as the backend framework and HTML, CSS, Bootstrap, and AJAX for the frontend, delivering real-time updates on machine and rack statuses. Leveraged MongoDB as the database solution to provide a comprehensive view of laboratory operations, optimizing efficiency and facilitating seamless data management.
- Designed and developed interactive dashboards utilizing Dash, a Python framework, to generate comprehensive reports and visually represent performance metrics collected periodically for frequent release loads. Integrated MongoDB as the database backend to store and manage data efficiently, enabling informed decision-making and enhancing operational insights.
- Leveraged my expertise in backend development by building APIs and working with databases like PostgreSQL and MongoDB. Utilized Hibernate and Spring 6 for efficient data persistence and application development.

##### Software Engineer

Jul 2022 -Nov 2022

Tokopedia • Hyderabad, TELANGANA

- Supported Communication module as a dedicated Support Engineer, actively involved in the development of numerous new features to enhance application functionality.
- Contributed to the comprehensive redesign and upgrade of the application, implementing strategic improvements to enhance user experience and performance.

## Internship

Sep 2022 - Nov 2022

CodingZap Technologies • Hyderabad, TELANGANA

- Learned and implemented basic structure building for the application. Built front-end for a community-based task management application using Flutter. Worked on integration of the application with Firebase.

## EDUCATION

Computer Science Engineering (B Tech)

Jun 2018 - May 2022

National Institute of Technology Andhra Pradesh • Tadepalligudem, ANDHRA PRADESH

CGPA: 9.18

Intermediate

Jun 2016 - May 2018

Mahathi Junior College • Visakhapatnam, ANDHRA PRADESH

Secured 981/1000

Class X

Jun 2006 - Jun 2016

Chaithanya Public School • Visakhapatnam, ANDHRA PRADESH

Secured 10/10 GPA

## SKILLS

Apache Spark (Using Scala and Java) (intermediate) • Apache Kafka (intermediate) • LLM (intermediate) • VectorDB (intermediate) • RAG (intermediate) • PySpark(intermediate) • Spring (intermediate) • Spring Boot (intermediate) • Hibernate (intermediate) • JPA (intermediate) • Deep Learning and Generative Models (advanced) • Machine Learning and Data Science (intermediate) • Lang Chain (novice) • Dash (intermediate) • Python (intermediate) • Java (intermediate) • Scala (intermediate) • Go (advanced) • C++ (advanced) • C (intermediate) • PyTorch (novice)• Data Structures and Algorithms (advanced) • Computer Networks (advanced) • Flutter (intermediate) • HTML (intermediate) • CSS (intermediate) • JavaScript (intermediate) • Flask (advanced) • Django (novice) • REST (intermediate) • DBMS (intermediate) • Computer Organization (intermediate) • Operating Systems (intermediate) • Project Management (intermediate) • Hadoop (novice) • Distributed Systems (novice) • Agile methodologies (intermediate) • Docker (intermediate) • Pandas (intermediate) • Numpy (intermediate) • ETL (intermediate) • Ingestion Applications (intermediate) • Familiar with AWS and have experience on S3 (intermediate)

## ACCOMPLISHMENTS

- **Structured Streaming Project using Spark Scala:** A project showcasing the versatile applications of Structured Streaming in Apache Spark, culminating in the successful implementation of various end-to-end examples across diverse datasets. ([GitHub](#))
- **School Application using Spring and Spring Boot:** Designed and implemented various Spring and Spring Boot use cases, showcasing expertise in Java application development. Developed a

- comprehensive school system project in Spring Boot ([GitHub](#))
- **CIFAR project using CNN and Auto Encoders:** Completed milestone project on CNN networks, showcasing CIFAR dataset classifications, MNIST, FMNIST datasets etc. Used various methods from Auto encoders to plain CNN for improvement of various metrics. ([Colab](#))
- **Style Transfer Learning Project using CNN:** Completed projects on Style Transfer Learning where a style of one image is transferred to the other image using deep learning neural networks ([Colab](#))
- **GAN's using CNN:** Implemented project showcasing progressive complexity in GAN tasks, from basic concepts to advanced multidimensional images ([Colab](#))
- **Kafka Project:** Developed and presented a simplified Kafka project, illustrating diverse use cases through multiple examples. ([GitHub](#))
- **Performance Comparison of Supervised vs Unsupervised GNN:** The project is about comparing the performance of the supervised and unsupervised algorithms over various datasets, which gives insights over what type of algorithm suits well for the given dataset. ([Colab](#))
- **Neural Network from scratch using Numpy Only:** Basically, the project is about building a neural network which is highly configurable by only using libraries like Numpy instead of advanced frameworks. ([GitHub](#))
- **Netflix Movie Recommendations using SVD:** One of my machine learning projects giving insights about how recommender system works and predicts ratings for movies based on Netflix Ratings data using SVD. ([GitHub](#))
- **COVID-19 Tracking Application:** A mobile based application which shows the latest number of cases and news about COVID 19. Also helps in tracking persons. ([GitHub](#))
- **Student Information System:** A java swing-based application for maintaining student, course and mark records. ([GitHub](#))
- **Hostel Management System:** Project aimed to provide seamless and paperless experience in managing all activities of a typical university hostel. ([GitHub](#))

## CERTIFICATIONS

- Completed Course on Spark using scala from Sundog Education by Frank Kane ([Certification](#))
- Achieved certificate in Apache Spark 3 - Real-time Stream Processing using Scala from Prashant Kumar Pandey, Learning Journal ([Certification](#))
- Finished Course A deep understanding of deep learning (with Python intro) by Mike X Cohen ([Certification](#))
- Successfully completed the course [NEW] Master Spring 6, Spring Boot 3, REST, JPA, Hibernate as taught by Eazy Bytes, Madan Reddy ([Certification](#))
- Successfully completed the course Apache Kafka - Real-time Stream Processing (Master Class) as taught by Prashant Kumar Pandey, Learning Journal ([Certification](#))
- Successfully completed the course ChatGPT and LangChain: The Complete Developer's Masterclass as taught by Stephen Grider ([Certification](#))

## ACHIEVEMENTS

- Secured AIR 1 in Python programming course of NPTEL.
- Worked as Core Member for Google Developer Student Clubs NIT Andhra Pradesh. Secured 5th position in Flutter training from StartwithGenesis Organization.
- Completed Data Science course offered by Consulting & Analytics Club, IIT Guwahati. Achieved 308 rank in Kaggle competition conducted by Consulting & Analytics Club, IIT Guwahati.
- 2-star Coder at Code chef and 4 stars in Problem solving in HackerRank