

VENKATA SAI SURYA RAO BEERAKA

(Willing to Relocate) | Chicago, Illinois 60607 | +1 312-669-4463

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EDUCATION

Master of Science in Computer Science | GPA: 3.6/4.0

August 2023 - May 2025

The University of Illinois Chicago

Bachelor of Technology in Computer Science | GPA: 3.5/4.0

August 2017 - June 2021

Jain University | Bangalore, India

TECHNICAL SKILLS

Programming Languages: Python, C, Java

Databases: Microsoft SQL Server, Amazon RDS, MongoDB

Web Technologies: HTML, CSS, JavaScript, React, Node.js, REST APIs

Frameworks and Libraries: Spring Boot, TensorFlow, PyTorch, Pandas, AWS (IAM, EC2, S3)

Software Skills: Full-Stack Development, System Design, Microservices, CI/CD, Data Structures and Algorithms

Tools and Platforms: Jupyter, Jira, Git, SoapUI, Arduino IDE, ServiceNow, Bitbucket, SDLC

EXPERIENCE

Software Engineer, Carelon Global Solutions (Elevance Health) | Bangalore India.

March 2023 - July 2023

Skills Applied – Java, SpringBoot, Microservices, SSIS, T-SQL, Workday, Agile, Rest API

- Developed an automated broker onboarding system, reducing turnaround time from 14 days to just 1 business day, streamlining healthcare operations and improving process efficiency.
- Engineered backend solutions using Java, Spring Boot, and REST APIs, optimizing data processing workflows and reducing manual workload by 45 hours per week.
- Designed and optimized database workflows with T-SQL, SSIS, and stored procedures, enhancing system performance, scalability, and response times.
- Collaborated with cross-functional teams to improve data collection and processing, delivering a critical payments impact list aligned with business requirements for accurate and timely execution.

Associate Software Engineer, Carelon Global Solutions (Elevance Health) | India

September 2021 - February 2023

Skills Applied – Java, SpringBoot, Soap UI, Postman, Control-M, Batch Job Monitoring

- Conducted comprehensive API testing using Postman, ensuring functionality, performance, and security compliance while optimizing application reliability.
- Monitored and troubleshooted batch jobs in Control-M, proactively identifying and resolving issues to maintain seamless operational workflows.

PROJECTS

Comprehensive Analysis of EPL Match Data | *Python, Beautiful Soup, Hypothesis Testing, Data Visualization, ML Algos*

- Cleaned and prepared football match datasets by encoding categorical variables, handling missing values, and creating new features, ensuring optimal data quality for model training and analysis.
- Implemented Logistic Regression and XGBoost Classifier to predict match outcomes, utilizing confusion matrices and ROC curves to analyze performance metrics, optimize model selection, and extract key insights.

Sentiment Analysis of Political Tweets | *Python, TF-IDF, Logistic Regression, Ensemble Models, Data Visualization*

- Analyzed sentiment trends in political discourse by processing large-scale tweet datasets, extracting meaningful insights from text data, and evaluating sentiment polarity related to Barack Obama and Romney.
- Developed predictive models to classify sentiment, leveraging statistical techniques to assess performance and utilizing visualizations to interpret sentiment patterns and trends.

MentorBridge – AI-Powered Mentorship Platform | *React.js, Material-UI, Node.js, Express.js, MySQL*

- Designed an intuitive and user-friendly platform that streamlines course selection, mentor recommendations, resume review, and networking opportunities, enhancing mentee engagement and career development.
- Developed an aesthetic dashboard with a detailed progress overview and integrated interview preparation resources, ensuring a responsive and seamless user experience aligned with HCI principles.

CERTIFICATIONS

- Certified AWS Cloud Practitioner:** Showcasing expertise in AWS core services and cloud computing principles.