

Sree Harsha K

(Software Engineer)

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TECHNICAL SKILLS

Programming Languages: Python, Swift, Java, C, C++

Scripting Languages: ES-6, JavaScript, Typescript, HTML, CSS, Redux, rxjs, Saga

Front End Frameworks: React, React Native, Vue.js

Data Science: R, SAS, TensorFlow, Tableau, AWS glue, ETL tools

Databases: SQL, Firebase

Tools: Git, Jira, Jenkins, Ms Office

Other: Blockchain, Federated Learning, IoT, Docker, Postman API

Related coursework: HCI, Artificial Intelligence, Computer Vision, Machine Learning, Data Mining, NLP

EXPERIENCE

Software Engineer - ICICI Securities

Mumbai, India

Front End Development

July 2022 – Aug 2023

- Engineered a multi-module trading application [Mintx](#) using React Native, achieving a 25% improvement in app responsiveness and user satisfaction.
- Innovated the design of intuitive dashboards tailored to meet intricate back-office requirements, resulting in a 20% increase in user productivity. Spearheaded the initiation of an Apple Watch companion app, expanding the application's accessibility to a new user base.
- Developed and meticulously maintained an image cropper library, incorporating advanced features for precise image manipulation. Implemented dynamic data caching strategies, reducing data latency by 30% and ensuring users receive the latest market updates with minimal delay.
- Successfully integrated push notification functionality, adding deep linking and contributing to a 15% increase in user retention metrics by delivering timely alerts on market trends, price changes, and crucial updates.
- Optimized data gathering APIs for an internal agent-driven fault reporting portal, reducing service delivery time.

Software Development Engineer - Zendrive

Bangalore, India

Front End Development, Data Scientist

July 2021 – Dec 2021

- Engineered sophisticated visualizations for sensor data and driver behavior, seamlessly integrating Vue.js for the front-end and Python for back-end processing. This enhanced the overall user experience and data insights.
- Implemented an optimization strategy by reducing local storage usage and transitioning to URL search parameters, resulting in improved application performance and a more efficient data storage approach.
- Conducted in-depth driver behavior analysis for over 3.5 million trips utilizing a powerful stack including Python, PySpark, and Kibana.

PROJECTS

Decentralized Network for P2P — Cryptography, Blockchain Technology

- Implemented a blockchain using cryptographic algorithms like DES (Data Encryption Standard).
- Added features for viewing user transactions, verifying the blockchain, and adding new users.

Distributed Document Retrieval System — Python, NLTK, Distributed Systems

- Developed a distributed document retrieval system using the BM25, TF-IDF algorithm for scoring and ranking documents based on relevance to search queries.
- Implemented tokenization, preprocessing, and stemming of documents for efficient retrieval. Designed a fault-tolerant, scalable distributed storage system with parallel processing capabilities.

Community Detection in Social Network Analysis — Girvan–Newman

- Designed a model using the Girvan–Newman algorithm for detecting communities and their relations.
- Achieved an accuracy of 94.7 percent and successfully deployed it.
- Implemented other models for Goods Requirement Prediction, Healthcare Website, Image Restoration using DFDNet.

EDUCATION

University of Central Florida-GTA

Orlando, FL

Masters in Statistics and Data Science

Aug. 2023 – Aug. 2025

Birla Institute of Technology and Science-Pilani

Hyderabad, India

Bachelor of Engineering in Computer Science

Aug. 2018 – May 2022