SAIHARSHITH KARUNEEGAR RAMESH

+1 447-902-1731 | @sk120@illinois.edu | @linkedin.com/in/saiharshithkr/ | Champaign, Illinois

EDUCATION

MASTER OF COMPUTER SCIENCE

B.ENG IN COMPUTER SCIENCE

Dec 2023 Illinois, USA

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

May 2021

ANNA UNIVERSITY; CGPA: 9.54/10.0

Chennai, India

EXPERIENCE

SOFTWARE ENGINEER @ FRESHWORKS

July 2021 - April 2022

BACK-END | JAVA | MySQL | SPRING BOOT | REST API

Chennai, India

- Upgraded the build tool (Gradle) used in the product, reducing the build time to 8 minutes from >13 minutes.
- Reduced the network traffic overload of the Freshmarketer product by >40% by changing the product's monolith background server to multiple layers of microservices.
- Reduced the processing time of the sign-up requests by 30% by making the sign-up callback an asynchronous process.
- Improved the email deliverability of the product by disabling the outgoing email services of new users with low spam scores, reducing the overall spam score percentage of the product by **50**%.
- Introduced a separate email domain for free and paid customers by checking the version of the product that the customer has purchased.

SOFTWARE ENGINEER INTERN @ FRESHWORKS

Feb 2021 - June 2021

BACK-END | JAVA | MySQL | SPRING BOOT | REST API

Chennai, India

- Developed a **Staging Stack system** for Freshmarketer's test engineers where they can update and release the usage of different test stacks.
- Developed de-duplication algorithms to ensure appropriate email-deliverability metrics with the help of Redis Cache.
- Collaborated with the Freshsales product team and added a new landing page feature in the customer timeline within 2 days, meeting the customer's deadline.

Personal Projects / Publications

TAG-ME-IN

Node.js | EXPRESS | MySQL | ReactJS

- Built a carpooling application that helps the University of Illinois students to find people going to similar places and tag along with them
- Developed the front end using React.js and the back end using Node.js and MySQL.

THE DISEASE PREDICTOR

PYTHON | JAVA

- Built an android application that predicts different types of external diseases on eyes, skin, mouth, and nails with an image input using **Convolutional Neural Networks** with 89% accuracy. Created the dataset from scratch by web scraping.
- Won the Most Feasible Project Award in a 36-hour hackathon conducted by ACM, SVCE.
- github.com/harshith2000/The-Disease-Predictor

APPLICATION OF RANDOM FORESTS FOR AIR QUALITY ESTIMATION IN INDIA BY ADOPTING TERRAIN FEATURES

PYTHON | PANDAS | JUPITER NOTEBOOK

- Built a Regression model which predicts the Air Quality Index (AQI) of any Indian city using its terrain features with 81% accuracy.
- ieeexplore.ieee.org/document/9315252

FARMER'S BOOK

BACK-END | MySQL | REST API

- Built a Web Application for farmers through which they can trade crops, post their problems and get solutions from fellow farmers.
- Developed backend system using MySQL and connected to the Frontend using REST API.

TECHNICAL SKILLS

Languages
Tools & Frameworks

C++, Python, Java, SQL, Javascript Git, MySQL, Spring Boot, Node.js, React.js, AWS, Linux.