

# SAIHARSHITH KARUNEEGAR RAMESH

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## EDUCATION

### MASTER OF COMPUTER SCIENCE

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN ; GPA : 4.0/4.0

Graduate Research Assistant @ NCSA, UIUC

Dec 2023

Illinois, USA

### B.ENG IN COMPUTER SCIENCE

ANNA UNIVERSITY ; GPA : 9.54/10.0

May 2021

Chennai, India

## TECHNICAL SKILLS

### Languages

C++, Python, Java, SQL, Javascript

### Tools & Frameworks

Git, MySQL, MongoDB, Neo4j, Spring Boot, Node.js, React.js, Apache Kafka, AWS, Linux.

## 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 the 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

### 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.
- [github.com/harshith2000/TagMeIn](https://github.com/harshith2000/TagMeIn)

### 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](https://github.com/harshith2000/The-Disease-Predictor)

### FARMERSBOOK

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.
- [github.com/harshith2000/Famersbook](https://github.com/harshith2000/Famersbook)

## EXTRACURRICULARS & LEADERSHIPS

### VICE PRESIDENT @ KNOW-I (AI RESEARCH CLUB)

June 2019 – Apr 2021

EX - JOINT SECRETARY @ THE ASSOCIATION OF COMPUTER ENGINEERS

Anna University

- Organized various technical and non-technical events, including Coding Competitions, Seminars, Paper Presentations, and Ideathons.
- Conducted seminars where I got the opportunity to teach the fundamentals of CS to my juniors.
- Organized two national-level technical symposiums and a 24-hour hackathon.