Suryaansh Rathinam

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GitHub Profile
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EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** *2020-24*

  Manipal Institute of Technology, Manipal CGPA: 9.43

WORK EXPERIENCE

- **IEEE IIT Kharagpur Section** *Jun 2023 - Aug 2023*

  Research Intern Remote
  - Worked on a research project based on Image Segmentation and Deep Learning
  - Built a dataset of medical ultrasound images and a deep learning model to perform image segmentation on the same, obtaining an accuracy of 99.29 percent.

- **Moneyflo** *Mar 2023 - Present*

  Full Stack Developer Remote
  - Worked on the Frontend of the Web Application using NextJS along with Firebase
  - Worked on building RestAPI endpoints based on FastAPI as well as the NestJS Frameworks.
  - Worked with AWS, primarily utilising s3, ec2 and lambda gaining hands-on experience in real time projects.

- **PE Front Office** *Dec 2022 - Jan 2023*

  Web Developement Intern Remote
  - Worked primarily on the Frontend of their client facing Help Centre, working on implementing new features as well as cleaning the user interface to make it more pleasing for their clients, as well as improving the user experience.

- **Ridecell** *May 2022 - Aug 2022*

  Software Engineering Intern Remote
  - Worked as a part of the QA and automation team working on both API and Mobile Testing.
  - Worked primarily using Python, Selenium, Pytest, and Appium to ensure smooth functioning of the API endpoints as well as the mobile app functionality.

- **Apice Tech** *Apr 2022 - Jul 2022*

  FullStack Engineer Intern Remote
  - Worked on creating clean, reusable, and responsive components for the UI of their product. Also worked on the server side of their Application in Java (Springboot) and wrote unit tests for various microservices.
  - Worked with React JS and Java to ensure a clean UI of the website and a smooth functioning server.

- **SantaNet** *Aug 2021 - Jan 2022*

  Web Developement Intern Remote
  - Over the course of my part-time internship at SantaNet as a WebDeveloper, I worked as a part of a team of 4 developers, working primarily on the Frontend of the Website for this NGO, using ReactJS.

PROJECTS

- **PsychUp**

  http://psychup.org.in/

  - Led a team of 4 members, and worked on building a platform to bring to life the idea of increasing awareness regarding the field of mental health.Worked primarily with MongoDB, ExpressJS, ReactJS and NodeJS.
  - After extensive research, worked on including a comprehensive Personality Test as part of the platform based on the Myers-Briggs Personality Test.

- **DataGrad**

  https://datagrad.netlify.app/

  - Worked on building a platform to provide users with information regarding the top courses on particular topics across a variety of MOOC Platforms (Recommender System). Worked primarily using ReactJS, Flask, Python, Pandas, sklearn, CSS, and Bootstrap in a team of 4 individuals to complete this project.
  - Succeeded in providing students with a one-stop platform to scan a multitude of MOOCs and gain information regarding the top courses of the skill they wish to learn.

- **Decrypt**

  - Built a website for D3crypt: IEEESBM's annual cryptic hunt, working primarily with MongoDB. NodeJS, ExpressJS, React JS, CSS, and Bootstrap
  - The D3crypt competition was conducted successfully on the website, with around 200 people registering for the same and actively participating. Experiencing a smooth user flow and experience on the website.

Research Experience

- **Analysis And Comparison Of Different Frontend Frameworks**
  Published in Springer CCIS Vol 1804
- **Survey of the use of AI models and techniques in the analysis and prediction of neuro-degenerative diseases**
  To be published in: IOP Journal of Physics Conference Series
- **Exploring IoT-Blockchain Integration in Agriculture: An Experimental Study**
  Submitted to IEEE Access: Under Review
- **A Comprehensive and Systematic Study on Soil Quality Analysis and Crop Yield Prediction Using ML Algorithms**
  Submitted to Smart Agricultural Technology Journal: Under Review

Technical Skills and Interests

Languages:C/C++, Python, Typescript, SQL, Bash, Java
Frameworks/Tools: MongoDB, ReactJS, NextJS, Angular, AWS, Docker, Git, Selenium, Appium, NodeJS, Tensorflow, PyTorch
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

Other Experience

- **Technical Head** Manipal Open Source Society *Aug 2022 - Aug 2023*
  - Was a part of the board of the Manipal Open Source Society, the official open source club of MIT Manipal, in the capacity of Technical head
  - Oversaw the overall functioning of the Technical domains of the club.
  - Worked on conducting events and workshops to increase awareness regarding Open Source.
  - Worked on mentoring and guiding junior members of the club as they enhanced their professional, technical skill sets.

- **Participated in and won prizes in a number of intra-college and inter-college hackathons.**