Harsh Shah

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EDUCATION

DWARKADAS J SANGHVI COLLEGE OF ENGINEERING | B.tech in Computer Engineering

2020-2024 | Mumbai, India • CGPA: 9.33

EXPERIENCE

MORGAN STANLEY ⬈ | Tech Summer Analyst

May 2023 - July 2023

- Developed and deployed a new **async** client pub-sub subscription service that reduces call overhead by **28%**.
- Integrated **4** interactive highcharts to produce to real time data using the cps service.
- Migrated the User-Interface with upgraded angular to the company's monorepo with over **40** projects.
- Developed angular tests for all the angular components of the project.

CPI | Problem Setter Intern

Oct 2022 - Nov 2022

- Taught Data Structures and algorithms to **150 +** students in seminars and lectures on behalf of CPI in college.
- Delivered **5** high quality articles for their regular as well as annual open contests.

PROJECTS

IMGRESS ⬈ Tech-Stack : React , NodeJs , TiDb , Weaviate , Pytorch, s3Bucket , ECS

- One stop Destination to create , orchestrate and deploy your **Image search engine** instances within **2** minutes.
- Designed to be highly scalable that comes with **3 serverless Distributed microservices** and htap mysql database.
- Powered by a **vector** database and pre-trained **Img2-vec** neural network for robust , accurate and quick Image similarity search with accuracy upto **92%**.
- Supported by a trail of **audit logs** which enables the user to manage and track all upto **1000** past actions for an engine instance efficiently.

REMOTE-CODE-EXECUTION-ENGINE (RCE) ⬈ Tech-Stack : NodeJs , Docker , Shell

- A software used for **remote code isolation** and execution of C++ and python files
- Uses the Server-Worker-Queue **microservices** architecture.
- Allows **Parallel** code execution of up to **5** submissions in multiple sibling docker containers
- **Code containerization** which protects the system from malicious codes.

DOCKER SELENIUM GRID MANAGER ⬈ Tech-Stack : Python , Docker , Shell

- An open source CLI program to build and manage Selenium grids using docker containers.

ACHIEVEMENTS

- **All India Rank 61** in **ICPC Amritapuri doublesite regionals** 2021 ⬈
- **Winners** of UST D3CODE 2023 over **11000+** registrations ⬈
- **All India Rank 57** in **ICPC Kanpur- Mathura doublesite regionals** 2022 ⬈
- **Global Rank 471** out of **30000+** particpants in codeforces round 817 ⬈
- **Rank 1** in Semicode coding challenge over **3** qualifier rounds
- **Rank 2** in Crackathon programming challenge held over **3** qualifier rounds.
- **Rank 1** in Ignite coding challenge held over **2** qualifier rounds.
- **Global Rank 76** out of **36000+** in Newton School Coderush March' 23. ⬈

SKILLS

C++ • C • Python • Javascript • Go • LaTeX • Node • Express • REST • Tensorflow • Keras • Angular • MUI • Git • Github • MongoDB • VScode • SublimeText • MySQL • Docker • AWS • Bash