Rutvij Menavlikar

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EDUCATION

IIIT HYDERABAD
B.Tech and MS Dual Degree in Computer Science and Engineering
July 2019 - Present
CGPA: 8.71/10

LINKS

Github:// **Rutvij-1**
Codeforces:// **menavlikar.rutvij**
(Maximum rating 2015, *Candidate Master*)

ACHIEVEMENTS

• Won the Quantum Chemistry Challenge in Qhack 22 sponsored by Qunasys.
• Selected in IOITC (2017)
• Ranked #62 in the 2020 ICPC Asia Gwalior-Pune Regional Contest.
• Top 10 in Uber Hacktag 2.0 2022.
• Ranked #306 in Google Kickstart 2022 Round C.

TECHNICAL SKILLS

LANGUAGES & FRAMEWORKS
Day-to-Day:
Python • C/C++ • JavaScript • React
Familiar:
LaTeX • HTML/CSS • Qiskit • React Native • Bash • Solidity • Racket • Mapbox JS

MISCELLANEOUS
MySQL • MongoDB • Git

RELEVANT COURSES

Quantum Information and Computation, Open Quantum Systems and Quantum Thermodynamics, Quantum Algorithms Compilers, Algorithm Analysis & Design, Data and Applications, Machine Data and Learning, Distributing Trust and Blockchain, Statistical Methods of Artifical Intelligence

MAJOR PROJECTS

PAULIZ | QHack 22
- Simulated the Hamiltonian of the Heisenberg Spin Chain model using topologically optimized Trotterisation.
- Won the Quantum Chemistry Challenge in Qhack 22 for this project.

QC JOURNAL | Cuantum Qomputing
- Made notes and implementated some basic Quantum Computing algorithms and protocols in python and jupyter notebooks with Qiskit library.

DAPP MARKET | Auction-House
- A webapp for an online Auction House with proper payment and delivery system.
- Includes integration with Solidity back-end and truffle-react.

FOOD DELIVERY APP | ASeniorIsAsking
- An application for food delivery by students and for students developed using React JS, Flask, Redis, Docker and REST APIs.

LINUX SHELL | SeaShell
- A Bash-like shell in C using Linux system calls.
- Included piping, redirection and signal handling.

EXPERIENCE

SMARTTERRA | ML Intern
June 2021 – July 2021
- Worked on project Netcity, to build a ML model that could predict leakage in a pipeline given relevant data.
- Worked with jupyter notebooks, geopandas library, React native, Mapbox JS and Plotly JS.

QUANTUM WALKS | Research
June 2021 – Present
- Currently working on bounding mixing time of quantum walks on a physically realizable graph under Prof. Shantanav Chakraborty in CQST, IIIT Hyderabad.

POSITION OF RESPONSIBILITY

IIIT PROGRAMMING CLUB | Moderator
July 2021 – June 2022
- Co-heading the club and in-charge of hosting and organizing events like Fools Programming, Decode and Codecraft. Responsible for club operations.

TEACHING ASSISTANT
- **Discrete Structures**: December 2021 - March 2022
- **Data Structures and Algorithms**: March 2022 - Present