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 Qunasvs.
- 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