

RAHUL SINGH

SOFTWARE DEVELOPER

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SUMMARY

Results-driven Software Developer skilled in full-stack development, Python-based quantum frameworks (Qiskit, Cirq, CudaQ), and HPC/GPU integration. Experienced in building scalable scientific web applications with strong focus on performance, usability, and integration of quantum simulators.

PROFESSIONAL EXPERIENCE

Software Developer, CDAC Bangalore	August 2024 - Present
<ul style="list-style-type: none">Collaborated with a cross-functional engineering team to develop Qniverse, India's national quantum computing web platform, integrating Qiskit, Cirq, and CudaQ backends.Built frontend interfaces for quantum circuit visualization using JavaScript and WordPress.Designed REST APIs for circuit transpilation and quantum job execution.Integrated GPU-accelerated simulators (Qiskit Aer + cuQuantum) on HPC resources.Optimized platform performance and site security on WordPress CMS.	
Internship, CDAC Bangalore	Jan 2024 - June 2024
<ul style="list-style-type: none">Conducted research on Quantum TSP using QAOA, including Hamiltonian encoding, cost function design, and circuit optimization.Studied Quantum Random Walks and Quantum Walk algorithms, comparing performance with classical random walks for graph search.	

EDUCATION

Masters of Computer Applications	November 2022 - July 2025
Tezpur University Assam, India	
Bachelor of Computer Applications	August 2019 - July 2022
Aryabhatta Knowledge University Patna, India	

PROJECTS

Quantum Circuit Composer	August 2024 - December 2024
<ul style="list-style-type: none">Interactive drag-and-drop web UI for circuit design using JS + API integration.Accelerated Qiskit Aer simulations via cuQuantum (10x speed-up).	

SKILLS

<ul style="list-style-type: none">Languages: Python, JavaScript (ES6+), HTML5, CSS3, PHP, SQLWeb: React.js, WordPress CMS, REST APIs, Responsive UI/UXQuantum: Qiskit, Cirq, CudaQ, QAOA, QUBO, Hamiltonian SimulationHPC: NVIDIA cuQuantum SDK, Qiskit Aer GPU, CUDA Parallelization, HPC ClustersTools: Git, Docker, Jupyter, VS Code, Linux, Postman	Implementation and Comparative Study Hypercube Search Applications
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ADDITIONAL INFORMATION

- Languages:** English, Hindi.