

# SHISHEER S KAUSHIK

A polymath with a taste for emerging Technologies

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## EDUCATION

Jain Public School [Cumulative GPA]-9.0/10 (CBSE)

Alvas Pre-University [Percentage]-86.5% (PCME)

Visvesvaraya Technological University (VTU)-  
Electronics and Communication Engineering (ECE)  
[Cumulative GPA] - 8.37/10

IELTS : 8.0

## RESEARCH EXPERIENCE

### Qkrishi Quantum Centre of Excellence, India

Oct 2022 - Present

#### Junior Researcher

Working on developing Quantum Kernel for enabling deep-tech quantum-based solution in Quantum FinTech Industry under IFSCA

### CIRQuiT Research Centre (RVCE), India

Feb 2021 - June 2021

#### Remote collaboration with Prof. Nagaraja G.S and Prof. A.R Ashok Kumar

Worked on Hardware Implementation of Quantum Key Distribution, using the BB84 and Ekert 91 protocol.

## INTERNSHIPS / HACHATHONS

### Project Contribution at QC-HACK

Quantum Coalition Community

May 2021

I worked on a Project 'QR-Code Generator' by using the Principle of Quantum Interference and Bernstein-Vazirani Algorithm. [Link](#)

### Project Contribution at Q-munity

June 2021

- Worked on project using **Qiskit Metal** with International collaboration
- Our Team was successful in reducing the Noise in the Quantum Hardware Chip [Simulation]

### QIntern Participant

July 2021 - August 2021

I worked with a team on the project "Mapping a Landscape of Quantum Education Efforts". [Link](#)

### Summer Internship in Inventory Management project

Elite Techno Groups

Aug 2021-Sept 2021

Throughout the internship I have done some Industry Oriented projects like Inventory Management and Summer Olympics. It has enhanced my skills and knowledge in this particular field. [Link](#)

## TECHNICAL SKILLS

**Programming:** Python, Qiskit, Basics of Cirq

**Utilities:** Git, Streamlit, Jupyter Notebook, L<sup>A</sup>T<sub>E</sub>X

**Software:** NS-2, CST Studio Suite

## PROJECTS

### Quantum Steg-Alyzer: [Mini-Project]

Jan 2021 - Feb 2021

This is a Model project, which basically works on the Quantum simulation on the principle of Quantum Key Distribution [BB84]. Here, you can play around with the encryption and decryption process in order to send a secret message to someone in encrypted channel. [see credential](#)

**Quantum QR-Code Generator:** An API specifically designed to generate a QR-Code in the most secure way by using the principle of Quantum Interference. Written in Python that follows a Qiskit like commands. [see credential](#)

**OPEN-CV:** A fully functional Machine Learning Model designed to identify the Look alike personality genuinely can be used by many departments like police and hospitals in order to categorize and maintain databases of humans by using face recognition. [see credential](#)

## EXTRACURRICULAR ACTIVITIES

### Q-Mentor, [QWorld & QIndia]

July 2019 - Present

Mentoring freshmen for smooth transition to campus life, motivating their academic & other endeavors in the field of Quantum Engineering.

## ACCOMPLISHMENTS

**IBM Quantum Challenge [2021, 2022]** - Achieved Advanced badge, among 2000+ participants from all over the world

**[2020]** - Category prize winner in Nation level quiz competition on Computer Architecture

**IBM Certified Associate Developer - Quantum Computation** using Qiskit v0.2X [ 2022 ]

## CERTIFICATIONS

### IBM Quantum Summer

**School:** Issued on June 2021 [see credential](#)

### Quantum 101: TU Delft University

Issued on March 2021 [see credential](#)

### Quantum Computing with Qiskit Ultimate class

Issued on Oct 2022 [see credential](#)

### The Introduction to Quantum Computing

Issued on Apr 2021 [see credential](#)