

# SHREESH KUMAR JHA

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## EDUCATION

Bachelor of Technology - Information and Technology

**Maharaja Agrasen Institute of Technology**

📅 December, 2020 - May, 2024 📍 GPA: 9.48/10

## EXPERIENCE

Quantum Research Intern

**QWorld Association**

📅 Jun, 2022 - Present 📍 Remote

- Working on compiling academic resources and reading materials available on quantum computing and classify them as per their complexity for QMap.
- Creating quantum computing learning path for the QMap website, that is published as a subdomain of QWorld.
- Reviewing research papers on the efforts to promote / improve quantum computing community.

Mentee

**Bright Network Internship Experience UK - Technology**

📅 June, 2021 - July, 2021 📍 Remote

- Collaborated and assisted other mentees to research on Google work sample.
- Implemented and debugged Google's work sample features in Java.

Student Developer

**Google Code-in - FOSSASIA**

📅 Oct, 2018-Dec, 2018 📍 Remote

- Designed Fossasia's Google Code-in website features in JavaScript, HTML, and CSS
- Designed and implemented custom SUSI.AI bot in SUSI server on Google Kubernetes. Demonstration of Implementing SUSI.AI on Google Clouds
- Documented the features that were incorporated in Fossasia's PSLab application.
- Implemented and debugged custom SUSI Server

## SKILLS

Languages: C/C++, Java, TypeScript, Python **Additional skills:** React, Docker, git, LaTeX, Unix

## ACHIEVEMENTS

- **2nd-Runner Up** in IncubaitIND Mait Hackathon (4 Rounds - 100+ participants).
- From **5% (100000+ participants)** accepted participant to compete in Codechef Snackdown (2021) Semi-Finals.
- **Campus Captain** for Coding Minutes.

## PROJECTS

Quantum-Algorithms

📅 Dec, 2021 📍 Delhi, India

- Implemented Deutsch-Jozsa, Grover's Search, Shor's Algorithm and QAOA Travelling Salesman Problem on Qiskit SDK in Python.
- Designed Quantum Circuits for the algorithm's in Python by applying Matplotlib, Numpy and Pandas.

Titan-Interpreter

📅 Dec, 2021 📍 Delhi, India

- Developed an Interpreter for Pascal in Python that works under an (x86-64) environment.
- Designed interpreter based on Abstract Syntax Tree that properly evaluate arithmetic expressions containing unary operators.

Covid-Alert

**IncubaitIND Mait Hackathon**

📅 May, 2021 📍 Delhi, India

- Placed in **Top 3**(out of 50+ teams) Best Projects.
- Developed a software that identifies whether or not people are wearing masks and maintaining social distance in Python, OpenCV, Tensorflow, and Keras.
- Designed a web page to show (live cases, origin via map, and current pandemic headlines) in JavaScript, HTML, CSS and Mapbox.

## COURSES

- Quantum Computing
- Data Structures and Algorithms
- Theory of Computation
- Computer Architecture
- Discrete Mathematics