

SUBHAM SAHOO

B.Tech. Engineering Physics
UG(III Year I Semester)
Contact No: 8249041078
Email: ssahoo@ph.iitr.ac.in
Registration No: B.Tech./EPH/18122024/2021

Indian Institute of
Technology
Roorkee



Area of Interest

Software Development, Machine Learning, Algorithms and Data Structures, Open Source Development

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	8.26
2017	Twelfth	JNV Sundargarh, Odisha (CBSE Delhi)	94.2 %
2015	Tenth	JNV Sundargarh, Odisha (CBSE Delhi)	10.0

Projects

Quizio | SDS Labs

15 May 2019 - Present

- Quizio is an online test platform created with the vision of conducting safe unsupervised tests.
- It is engineered on MVC architecture with ReactJs based frontend and NodeJS backend.
- It is equipped with SDS Labs OAuth for smooth user flow, Mongo as the database for data management, and also has Redis-caching for better network performance.

DSG Website | SDS Labs

20 November 2019 - 30 January 2020

- The DSG IITR website is to share our work and timeline with the community as well as to publish our blogs.
- It is designed in Hugo templating engine with the Hugo templet written from scratch. [Link](#)

InstaVote | SDS Labs

1 August 2019 - 30 January 2020

- InstaVote is a blockchain-based electronic voting system built using solidity.
- The web DApp runs a central Node.js server for storing important admin related information.
- It runs a ReactJs based frontend with the central server also providing for a highly secure facial recognition login system.
- The voting systems run on the solidity based blockchain system to provide a secure voting environment.

D2I-PyTorch | DSG, IITR

15 May 2019 - 15 July 2019

- This project is an effort to modify the book Dive Into Deep Learning and add the support of the Pytorch framework.
- This project is appreciated by the open-source community and got 3.3k stars on Github.

Number plate Detection | DSG, IITR

15 August 2019 - 31 December 2020

- This project was based on the development of a system to make an autonomous system for reading number plates for security and surveillance purpose.
- The system uses YOLONet and CNN to segment number plates from a live environment.
- Followed by using OCR to read respective numbers.

Gaspar | SDS Labs

1 March 2019 - 1 June 2019

- Gaspar is a Platform as a Service (PaaS) written in Golang that can deploy and scale web applications based on Python, PHP, Node.js, Golang with MySQL, MongoDB, PostgreSQL, Redis as database engines.
- It is engineered on microservices architecture and uses Docker for the containerization of the applications and databases.
- It has a master server that acts as a central registry keeping track of all microservices, applications, and databases.

MUSICAL FOUNTAIN | MaRS, IITR

15th February, 2019 - 10th March 2019

- The work involved the Development of a Fountain that follows the music to make visual effects.
- Involved Programming an Arduino for controlling electronic system and audio processing.

Awards / Scholarships / Academic Achievements

- Winner Microsoft CodeFunDo++ 2019, IIT Roorkee.
- Best Execution Award for Musical Fountain in Srishti'19 by Model and Robotics Section, IIT Roorkee.

Skills

Computer languages	C++, JavaScript, Python, HTML/CSS, SQL, PHP, MATLAB, Golang, Coffeescript, Hugo
Software Packages	Git, ReactJS, NodeJS, Linux, Apache, Postman, MongoDB, PostgreSQL, MySQL, Keras, Pytorch, Redux, jQuery, Django, VSCode, Vim
Additional Courses Taken	Economics, Machine Learning (CS 229), Convolutional Neural Networks for Visual Recognition(CS 231n)
Languages Known	English (SRW) , Hindi (SRW) , Oriya (SRW)

Positions of Responsibility & Extra Curriculars

Developer | SDS Labs, IIT Roorkee

15th January 2019 - Present

- Regularly conducted hackathons, public lectures, and competitions to foster the technical culture on the campus.
- Responsible for maintaining current applications and server management.
- Mentored freshmen students in their projects for the Winter of Code program and college hackathons.

Member | DSG, IIT Roorkee

15th January 2019 - Present

- Data Science Group, IITR is a student group of Machine Learning and Deep Learning enthusiast who aims at solving real-world problems using ML, DL and cultivate the culture of the state of the art ML.
- We participate in hackathons, conduct public lectures/ML DL competitions, and also implement current research papers.