

RITWIK SAHA

Mandi, Himachal Pradesh

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EDUCATION

Bachelor of Technology(Electrical Engineering)

2016 - 2020

Indian Institute of Technology, Mandi

Overall GPA: 7.7/10

School of Computing and Electrical Engineering

CBSE(Higer Secondary)

2016

D.A.V. Public School, Shreshtha Vihar, Delhi

Percentage: 94.4%

CBSE(Matriculation)

2014

D.A.V. Public School, Shreshtha Vihar, Delhi

CGPA: 10.0

TECHNICAL STRENGTHS

Computer Languages

C/C++, Python, MATLAB

Deep Learning Frameworks

Keras, TensorFlow

Containerization & Orchestration

Docker, Kubernetes, KNative

IoT

Arduino, RaspberryPi

Graph Databases

Neo4J, ArangoDB

Blockchain

Ethereum, Solidity, Web3

EXPERIENCE

Siemens Technology & Services Pvt. Ltd.

June 2019 - August 2019

Research Intern

- Set up infrastructure for running serverless applications.
- Leveraged Docker, Kubernetes and KNative for setting up along with various network management framework like Istio.
- Benchmarked the performance of the serverless setup under various load conditions and network topology.
- Documented the relevant code and procedures.

Siemens Technology & Services Pvt. Ltd.

December 2018 - Febraury 2019

Research Intern

- Set up blockchain infrastructure with help of Private Ethereum.
- Benchmarked the transaction performance, system resource usage and network performance under a variety of conditions like variable block times, transaction loads, block size etc.
- Designed and partly implemented a supply chain solution on blockchain infrastructure.
- Tried out and partially benchmarked various competing solutions for blockchain like Tendermint
- Documented the relevant codebase and procedures.

Indian Institute of Technology, Mandi

June 2017 - January 2018

Research Intern

- Organized and created dataset for IMD rainfall data and soil data from ISRO.
- Ran Machine Learning algorithms on the dataset to predict landslide predictions.
- Published the results in a paper presented at International Conference for Machine Learning and Data Science, 2018 and published on IEEE Xplore.

RELEVANT COURSES

Core Courses

Signals & Systems
Control Theory
Communication Theory
Electromechanics
Network Theory

Computer Science Courses

Data Structures and Algorithms
Communicating and Distributed Processes
Deep Learning
Artificial Intelligence
Computer Organization

Other Relevant Courses

Probability, Statistics & Random Processes
Linear Algebra
Mathematics for Engineers

POSITION OF RESPONSIBILITY

Techkriti 2015 - Technical and entrepreneurial Festival

August 2014 - March 2015

Public Relations

IIT Kanpur

- Spearheaded a 2-tier team of 40 people to successfully conduct professional shows, exhibitions and talks
- Organized talks in Techkriti by eminent personalities like Dr K. Radhakrishnan (Chairman, ISRO), Peter Schultz (Co-inventor, Fibre optics) and David Hilmers (NASA Astronaut) with more than 1000 attendees
- Successfully organized Auto expo, Space expo and Defence expo together for the first time in Techkriti
- Promoted awareness through social campaigns like Make a wish, Adopt a tree and Teen Suicide Prevention

Students' Placement Office

April 2015 - Present

Internship Coordinator

IIT Kanpur

- Coordinating with team of 20 students responsible for facilitating internship proceedings of 650 students involving 150 companies
- Responsible for developing contacts with corporate recruitment teams of several firms for internship and placements
- Organized sessions on Personality Development and Career Awareness by esteemed alumni for over 1600 students

Hall Executive Committee

April 2014 - Nov 2014

Secretary

IIT Kanpur

- Coordinated with 12 members to led a team of 200 students in inter hall technical, cultural and sports competition of institute
- Planned an annual budget of 2 lakhs for proper functioning of hostel with more than 400 residents

EXTRA-CIRRICULAR

Secured Gold in M.P. State Throw Ball competition and represented district in State Hand Ball competition

Represented Institute in Udghosh'13 and secured second prize in Kho-Kho intramurals

Secured second prize in Dance Drama competition in Galaxy'14, inter hall cultural competition of IIT Kanpur

Won second prize in Electromania, circuit game designing competition in Takneek'13, inter hall technical festival of IIT Kanpur