

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 RESPONSIBILITIES

Summer of Code in Space

June 2019 - September 2019

Mentor

European Space Agency

- Assigned as project mentor for in SOCIS(Summer of Code in Space) organized by the European Space Agency(ESA).
- The project is about extending the EinsteinPy library to support symbolic calculations in General Relativity.
- The project is fiscally sponsored by European Space Research and Technology Centre(ESTEC) wing of ESA.

Indian Youth Delegation to China

July 2018

Delegate

Ministry of Sports & Youth Affairs, Govt. of India

- Represented Indian contingent as a delegate in Indian Youth Delegation to China - 2018
- Interacted with top officials within the Chinese Government and the Chinese youth.

Exodia(Tech-Cult Fest of IIT-Mandi)

April 2018

Video Design Coordinator

IIT Mandi

- Was tasked with the job of creating teasers, trailers and promo videos of the fest Exodia.
- This improved my video editing skills on Adobe Premiere Pro & After Effects.
- Link to the videos.

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