RITWIK SAHA

@ b16110@students.iitmandi.ac.in +917838958076 New Delhi, India https://www.linkedin.com/in/ritwik-saha/
https://github.com/ritzvik

EXPERIENCE

RESEARCH INTERN

Siemens Technology and Services Pvt. Ltd.

Jun 2019 – Present Bengaluru, India

- Set up infrastructure for running serverless applications using KNative, Kubernetes and Docker.
- Bechmark performance of KNative under various load conditions.

RESEARCH INTERN

Siemens Technology and Services Pvt. Ltd.

Dec 2018 – Feb 2019 Bengaluru, India

- Set up blockchain(Ethereum) infrastructure and benchmark transaction rates under various parameters like variable block times, transaction loads, block size etc.
- Designing a supply chain system on blockchain infrasctructure.
- Analyzing other blockchain platforms like Tendermint etc. against Ethereum.

TECHNICAL SKILLS

Programming Languages - C/C++, Python
Deep Learning
Blockchain
API Development
Communication/DSP
Web Development

SOFTWARE SKILLS

- Python Libraries and Frameworks :
  - TensorFlow, Keras, Flask
- Graph Databases :
  - Neo4J, ArangoDB
- Tools :
  - Git, Docker, Kubernetes
- Simulation :
  - MATLAB, Simulink, NI LabView

POSITIONS OF RESPONSIBILITY

MENTOR

Summer of Code in Space, ESA

May 2019 – Present

- Assigned as project mentor in SOCIS(Summer of Code in Space) organized by ESA(European Space Agency) for The EinsteinPy Project.

DELEGATE

Indian Youth Delegation to China

July 2018

- Represented India as a delegate in Indian Youth Delegation to China - 2018.

EDUCATION

B.Tech (Electrical Enginerring)

Indian Institute of Technology, Mandi

2016-2020 Mandi

- CGPA: 7.7/10

CBSE (Higher Secondary)

D.A.V Public School

2016 Shrestha Vihar, Delhi

- 94.4%

CBSE (Matriculation)

D.A.V Public School

2016 Shrestha Vihar, Delhi

- CGPA: 10/10

PROJECTS

THE EINSTEINPY PROJECT

- Founder of EinsteinPy - A Python library for General Relativity.
- Partly sponsored by ESA(European Space Agency).
- Soon to be a sub-organization under OpenAstronomy.
- https://github.com/einsteinpy/einsteinpy

EXOSKELETON FOR MOTION ASSISTANCE

- Exoskeleton intended for military applications.
- The project won 1st prize in Design Practicum Curriculum.

SAFETY DEVICE FOR FISHING VESSELS

- Low-cost solution for small vessels to avoid collision with big ships at night
- Project received 5th position in Inter-IIT Tech Meet 2018

PUBLICATIONS

- K. Agrawal, Y. Baweja, D. Dwivedi, R. Saha et al., "A Comparison of Class Imbalance Techniques for Real-World Landslide Predictions", in 2017 International Conference on Machine Learning and Data Science (MLDS), DOI 10.1109/MLDS.2017.21. Published by IEEE.