

# RITWIK SAHA

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## 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.
- Benchmark performance of KNative under various load conditions.

### RESEARCH INTERN

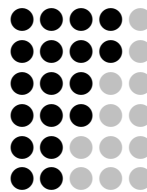
#### Siemens Technology and Services Pvt. Ltd.

📅 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 infrastructure.
- 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 Engineering)

#### 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

📅 2014 📍 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 1<sup>st</sup> 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 5<sup>th</sup> 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.