

SWAGAT RANJAN SAHOO

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Career Objective: “To LEARN AND GROW CONTINUOUSLY BY ACCEPTING ALL CHALLENGES WITH UPDATED TECHNOLOGIES. “

EDUCATION

Degree / Class	University/Board	C.P.I / Percentage	Year of Passing
Ph.D	IIT Guwahati, Assam, India	7.15	Pursuing
M.Tech	MNNIT, Allahabad, India	7.12	2012
B.Tech	BPUT, Bhubaneswar, Odisha, India	8.15	2010
XII	CHSE, Odisha, India	64 %	2005
X	BSE, Odisha, India	68.67 %	2003

TEACHING AND INDUSTRY EXPERIENCE

- Working as a **Senior Research Fellow** in the Department of Computer Science and Engineering, **IIT Guwahati, India** since 2017.
- **Assistant Professor** in the Department of Computer Science and Engineering at **C.V. Raman Global University, Odisha, India** from 1st August 2012 to 31st July 2017.
- **Co-founder and developer** of **Anxious Vision Software Technologies LLP**. It was an IT-based startup in Bhubaneswar for the development of educational software, from December 2013 to November 2016.
- Working on a project “**Underwater Computer Vision**” under the Technology Innovation Hub, IIT Guwahati, India since October 2022.
- Part-time “**Artificial Intelligence**” trainer at Ritvij Bharat Pvt. Ltd. (RBPL), Assam, India since August 2023.

Tentative Ph.D. Thesis Title: “Efficient Load Balancing in Cloud-assisted Vehicular Networks”

Supervisor Details: Dr. Moumita Patra, Dept. of CSE, IIT Guwahati, India

M.Tech Thesis Title: “A Priority-based Batch Scheduling Method in Cloud Computing Environment”

Supervisor Details: Prof. Dharmendra Kumar Yadav, Dept. of CSE, MNNIT Allahabad, India

SUBJECT OF INTEREST

- Cloud and Edge Computing
- Vehicular Ad-hoc Networks
- Machine Learning
- Computer Vision
- Web Technology

TECHNICAL SKILLS

- C, C++, Java
- Shell scripting
- Python (Numpy, Panda, Pytorch, and Gradio)
- WordPress
- git, LaTeX, SUMO

RESEARCH & PUBLICATIONS

INTERNATIONAL JOURNAL:

- SAHOO, S. R., PATRA, M., & GUPTA, A. (2022). AALB: APPLICATION AWARE LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS. VEHICULAR COMMUNICATIONS, 36, 100475.
- SINGH, A. K., SAMADDAR, S. G., SAHOO, S. R., & MATHEW, G. (2012). INCREASING ROBUSTNESS OF RC4 FAMILY FOR AUTOMATED SELECTION OF CIPHERSUITES. PROCEEDIA ENGINEERING, 30, 45-52.

INTERNATIONAL CONFERENCE:

- THAPA, S., SAHOO, S. R., PATRA, M., & GUPTA, A. A NOVEL COST-AWARE LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS IN INTERNET OF VEHICLES. 18TH INTERNATIONAL CONFERENCE ON NETWORK AND SERVICE MANAGEMENT (CNSM), 2022.
- SAHOO, S. R., PATRA, M., & GUPTA, A. (2021, JUNE). MDLB: A MATCHING BASED DYNAMIC LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS. IN 2021 INTERNATIONAL WIRELESS COMMUNICATIONS AND MOBILE COMPUTING (IWCMC) (PP. 291-296). IEEE.
- BARIK, R. K., LENKA, R. K., SAHOO, S. R., DAS, B. B., & PATTNAIK, J. (2018). DEVELOPMENT OF EDUCATIONAL GEOSPATIAL DATABASE FOR CLOUD SDI USING OPEN SOURCE GIS. IN PROGRESS IN ADVANCED COMPUTING AND INTELLIGENT ENGINEERING (PP. 685-695). SPRINGER, SINGAPORE.
- YADAV, V. K., SAHOO, S. R., & YADAV, D. K. (2012). RELIABLE TASK ALLOCATION IN DISTRIBUTED SYSTEM. IN PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING RESEARCH AND PRACTICE (SERP) (P. 1). THE STEERING COMMITTEE OF THE WORLD CONGRESS IN COMPUTER SCIENCE, COMPUTER ENGINEERING AND APPLIED COMPUTING (WORLDComp).

ACHIEVEMENTS/AWARDS IN TECHNICAL ACTIVITIES

- Certification for **Python for Machine Learning** in April 2022.
- Reviewer of **IEEE Transactions on Mobile Computing**, 2021,2022
- Representative of research scholars of the CSE department in IIT Guwahati, India, July 2018 - June 2019
- In charge of **Supercomputer PARAM SHAVAK** from CDAC in CV Raman Global University, India, 2016
- Technical Head of **Smart India Hackathon** for Nodal Centre CV Raman Global University, India, 2017
- Two times **GATE** qualified (2012, 2010)
- Cleared **NIC Entrance** Examination in 2011
- Oracle Certified Associates (OCA), 2010

CONFERENCE, WORKSHOP, AND TRAINING ACTIVITIES

- Active volunteer in Summer School on “**Machine Learning and Deep Learning**” conducted jointly by Center for Intelligent Cyber Physical System (CICPS) and Technology Innovation Hub (TIH) of IITG Technology Innovation & Development Foundation (TIDF) at IIT Guwahati, 26th June 2023 to 7th July 2023.

- Active member of the organizing committee and resource person in **ATELIER: AI for All Hands-on Workshop** during Research & Industrial Conclave - Integration'23 at IIT Guwahati, Assam India from 14th- 16th May 2023.
- Participated in the SPARC workshop on **Scaling Blockchains: from Bitcoin to the Lightning Network** at IIT Guwahati from 23- 25 Aug 2022.
- An active volunteer in the organizing committee in the International Conference, IEEE INDICON-2021 held at IIT Guwahati, Assam, India from 19-21 December 2021.
- Participated in SPARC workshop on **Blockchain Technologies and Decentralized Environments**, Aug 2021.
- An active volunteer in the organizing committee of the **3rd ISEA International Conference on Security and Privacy (ISEA-ISAP 2020)** in IIT Guwahati from 27 Feb - 1 Mar 2020.
- Participated in IEEE Tutorial Series for **Machine Learning and Deep Learning using Tensorflow** Organized by IIT Guwahati from 30 Sep- 7 Oct 2018.
- Worked as a key member of the organizing committee of **the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2016)**.

HOBBIES/INTEREST

- Learning new technologies
- Doing social activities
- Taking new responsibilities
- Writing Odia poems
- Playing badminton

PERSONAL DETAILS

Nationality: Indian
Date of Birth: 28th April, 1988
Gender: Male
Fathers Name: Mr. Laxmidhar Sahoo
Occupation: Retired Govt. Employee
Mothers Name: Mrs. Manjulata Sahoo
Occupation: Home Maker
Address: New married scholar hostel, IIT Guwahati, Assam, India 781039

I hereby declare that all the information given is correct to the best of my knowledge.

Date: 06/11/2023

Place: *Guwahati, India*

(Swagat Ranjan Sahoo)