

Utkalika Satapathy

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Research Group: <https://cse.iitkgp.ac.in/resgrp/ubinet/index.html>

Education

- Aug 2021–Present **Indian Institute of Technology (IIT), Kharagpur, Ph.D. Research Scholar, Computer Science and Engineering,**
Supervisor: Dr. Sandip Chakroborty
Research Area: Distributed System
Research Group: UbiNet Lab.
- 2019–2017 **International Institute of Information Technology (IIIT) Bhubaneswar, M.Tech., Computer Science and Engineering,**
CGPA: 8.66/10
Thesis Topic: A framework for Information Dispersion using Inaudible Acoustic Signals
Supervisor: Dr. Debashis Jena
Research Group: ISEA Lab
Project Name: SilentInformer: A framework for Information Dispersion using Inaudible Acoustic Signals.
- 2013–2009 **Silicon Institute of Technology, Bhubaneswar, B.Tech., Information Technology,**
CGPA: 8.46/10
Project Name: Graph Based Service Selection for Composition.
- 2009–2007 **Rama Devi Women's Junior College, Bhubaneswar, Higher Secondary, Science Stream.**

Employment/Internship

- May 2023 – **Upcoming Summer Research Intern, IBM Research Lab, Bangalore,**
Aug 2023 **Project:** OPENED Policy Enforcer.
- Feb 2021 – **Junior Research Fellowship, IIT Kharagpur, IGCAR sponsored Project,**
Present **Project:** Development of Algorithms and Tools for Log Analytics.
- Sep 2019 – **Faculty, College of Engineering and Technology, Odisha.**
Jan 2021
- May 2018 – **Summer Research Intern, IIT Kharagpur,**
Jun 2018 **Project:** SilentInformer: A framework for Information Dispersion using Inaudible Acoustic Signals.
- Sep 2013 – **Senior System Engineer, Infosys Ltd., Java Developer, at AMEX Account.**
Jul 2017

Teaching (Assistance)

- Jan–Apr 2023 **Teaching Assistant, NPTEL Online Certification Course, IIT Kharagpur Department of Computer Science & Engineering, Theory of Blockchain & Application.**
https://onlinecourses.nptel.ac.in/noc23_cs47/preview

- Jan–Apr 2023 **Teaching Assistant**, IIT Kharagpur, Department of Computer Science & Engineering, *CS60002: Distributed Systems*.
<https://cse.iitkgp.ac.in/~sandipc/courses/cs60002/cs60002.html>
- Jul–Nov 2022 **Teaching Assistant**, IIT Kharagpur, Department of Computer Science & Engineering, *CS61065: Theory And Applications Of Blockchain*.
<https://cse.iitkgp.ac.in/~sandipc/courses/cs61065/cs61065.html>
- Apr–Jun 2022 **Teaching Assistant**, IIT Kharagpur, Department of Computer Science & Engineering, *Programming and Data Structure Theory & Lab*.
- Jan–Apr 2022 **Teaching Assistant**, NPTEL Online Certification Course, IIT Kharagpur Department of Computer Science & Engineering, *Theory of Blockchain & Application*.
https://onlinecourses.nptel.ac.in/noc22_cs44/preview
- Jan–Apr 2019 **Teaching Assistant**, IIIT Bhubaneswar, Department of Computer Science & Engineering, *Operating System*.
- Aug–Nov 2018 **Teaching Assistant**, IIIT Bhubaneswar, Department of Computer Science & Engineering, *Java Programming*.
- Aug–Nov 2018 **Teaching Assistant**, IIIT Bhubaneswar, Department of Computer Science & Engineering, *Programming in C*.

Projects

- Nov 2022 **Clock Synchronisation in Provenance Systems for Serverless Computing Platforms**,
 Mentoring Ishan Sharma, post-graduate student at IIT Kharagpur, Department of Computer Science and Engineering, for his Thesis work.
- Nov 2022 **Reverse Engineering on Docker Images**,
 Mentoring Vamshidhar Reddy Dudyala, post-graduate student at IIT Kharagpur, Department of Computer Science and Engineering, for his Thesis work.
- Nov 2022 **Performance Analysis of eBPF Tail Calls**,
 Mentoring Narayan Gupta, post-graduate student at IIT Kharagpur, Department of Computer Science and Engineering, for his Thesis work.
- Nov 2022 **Unified System Call Log and Application Log Generation on Serverless Environment using eBPF**,
 Mentoring Rajat Bachhawat, under-graduate student at IIT Kharagpur, Department of Computer Science and Engineering, for his Thesis work.
- Apr 2022 **Universal Provenance Log Regeneration from Packet Traces for System Vulnerability Analysis**,
 Mentoring Narayan Gupta, post-graduate student at IIT Kharagpur, Department of Computer Science and Engineering, for his Thesis work.

Publications

- IEEE INFOCOM 2023 **DisProTrack: Distributed Provenance Tracking over Serverless Applications**,
Utkalika Satapathy, Rishabh Thakur, Subhrendu Chattopadhyay, Sandip Chakraborty, *IEEE International Conference on Computer Communications (INFOCOM)*, 2023.
- COMSNETS 2020 **SilentInformer: A Framework for Information Dispersion Using Inaudible Acoustic Signals**,
Utkalika Satapathy, Soumyajit Chatterjee, Sandip Chakraborty, *in International Conference on COMMunication Systems & NETWORKS (COMSNETS)*, 2020.
- ICIIS 2018 **An ECC based Lightweight Authentication protocol for Mobile Phone in Smart home**,
Utkalika Satapathy, Bhabendu Ku. Mohanta, Debasish Jena, Srichandan Shobhanayak, *in IEEE 13th International Conference on Industrial and information Systems (ICIIS) at IIT Ropar*, 2018.

- ICACCCN 2018 **Load Performance Testing on Cloud Platform**, Raken Ku. Lenka, Pranali Bhanse, **Utkalika Satapathy**, in *IEEE International Conference on Advances in Computing, Communication Control and Networking (ICACCCN) at Galgotias College of Engineering and Technology, 2018*.
- ICCCNT 2019 **Secure Communication in Internet of Things Application using Hyperledger based Blockchain**, **Utkalika Satapathy**, Bhabendu Ku. Mohanta, Soumyashree S. Panda, Srichandan Shobhanayak, Debasish Jena, in *IEEE 10th International Conference on Computing, Communication And Networking Technologies (ICCCNT) at IIT Kanpur, 2019*.
- Tencon 2019 **Study of Blockchain Based Decentralized Consensus Algorithms**, Soumyashree S. Panda, Bhabendu Kumar Mohanta, **Utkalika Satapathy**, Debasish Jena, Debasish Gountia, Tapas Kumar Patra.
- IJSTR 2019 **Trust Management in IoT Enable Healthcare System using Ethereum based Smart Contract**, **Utkalika Satapathy**, Bhabendu Ku. Mohanta, Debasish Jena.

Grants and Awards

- 2018 **Mobicom'18 Scholarship Grant**, for attending ACM Mobicom 2018.
- 2017 **GATE**, Qualified, *Score:432/1000*.
- 2012-2013 **Student Council Member**, Silicon Institute of Technology.
- 2007 **Awarded with Rajya Puraskar** , The Bharat Scout & Guide.

Responsibility

- 2023 **Volunteer**, for ICDCN 2023, The 24th International Conference On Distributed Computing And Networking, <https://cse.iitkgp.ac.in/conf/ICDCN23/>.
- 2022 **Web Chair**, for AI-ML Systems 2022, The Second International Conference on AI-ML Systems, <https://www.aimlsystems.org/2022/>.
- 2021 **Volunteer**, for AI-ML Systems 2021, The First International Conference on AI-ML Systems, <https://www.aimlsystems.org/2023/>.

Skills

Programming Language	Python, C, C++, Java, SQL
Tools	eBPF, Docker, Virtual Box, MATLAB, TEXnicCenter, Anaconda Navigator, Google Colab, Pycharm, Eclipse IDE, Jenkins,MySQL Workbench
Databases	Oracle 10g, DB2, MySQL, MongoDB
Operating System	Ubuntu, Mac, Windows 10, Kali Linux

Extra-Curriculars

- **Languages:** English, Hindi, Odia
- Awarded with first prize in IGT 2.0 in Infosys
- 1st Runner's up in Infosys Dancing Star Competition

Personal Details

Date of Birth	01-04-1992
Passport No	U5444024
Address	QR No - VA 19/4, Unit 2, Ashok Nagar Bhubaneswar, Khorda, Odisha

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