Yeasir Rayhan

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Education

2021 - 2026 (exp)	Ph.D. in Computer Science
	Purdue University
	Advisor: Walid G. Aref
2018	B.Sc. in Computer Science & Engineering
	Bangladesh University of Engineering and Technology (BUET)
	Advisor: Tanzima Hashem
	Thesis: Efficient Scheduling of Generalized Group Trips in Road Networks

Honors

2023	Travel Award, ACM SIGSPATIAL
2019	Regional Winner (Asia), The Global Undergraduate Awards (Computer Science)

Past Employment

- May '23 Jun '23 Intern Database Software Engineer ITTIADB, Bellevue, WA
- May '21 May'23 Research Assistant Purdue University. Advisor: Walid G. Aref.
- Jan '21 Aug '21 Research Assistant Bangladesh University of Engineering and Technology (BUET). Advisor: Tanzima Hashem.

Publications

- SIGSPATIAL '23 Yeasir Rayhan and Walid G. Aref. SIMD-ified R-tree Query Processing and Optimization. In Proceedings of the 31st ACM International Conference on Advances in Geographic Information Systems.
- EDBT '23 Yeasir Rayhan, Tanzima Hashem, Muhammad Aamir Cheema, Hua Lu, Mohammed Eunus Ali. An Efficient Approach for Indoor Facility Location Selection. In Proceedings of the 26th International Conference on Extending Database Technology.
- TSAS '23 Yeasir Rayhan and Tanzima Hashem. AIST: An Interpretable Attention-Based Deep Learning Model for Crime Prediction. In Volume 9 of ACM Transactions on Spatial Algorithms and Systems.
- TSAS '19 **Yeasir Rayhan**, Tanzima Hashem, Roksana Jahan, and Muhammad Aamir Cheema. 2019. Efficient Scheduling of Generalized Group Trips in Road Networks. In Volume 5 of ACM Transactions on Spatial Algorithms and Systems.

Preprints

Arxiv '22	Walid G. Aref, Ahmed M. Aly, Anas Daghistani, Yeasir Rayhan, Jianguo Wang,
	Libin Zhou. ILX: Intelligent "Location+X"Data Systems.

Teaching

Spring '24	Teaching Assistant, Purdue University CS348: Information Systems
Fall '23	Teaching Assistant, Purdue University CS448: Introduction To Relational Database Systems
Spring '22	Teaching Assistant, Purdue University CS 180: Problem Solving And Object-Oriented Programming
Fall '21	Teaching Assistant, Purdue University CS 180: Problem Solving And Object-Oriented Programming

Grants

2020

Co-author of the proposal, Interpretable Spatio-Temporal Deep Learning Models for Safe Cities and was awarded 6000\$ grant by the ICT Division, Bangladesh

Skills

PLC/C++, Python , JavaML FrameworkPyTorch, PyTorch Geometric