AS6-04-25
117416
Singapore
✉ aashish7@comp.nus.edu.sg
⌨ aashishkolluri.github.io
in Aashish Kolluri
Google Scholar

Aashish Kolluri

▬▬▬ Education

2018–2023* **PhD**, *National University Of Singapore*, Singapore, with Prateek Saxena
2017 **BTech.**, *Indian Institute of Technology Kanpur*, India
2013 **Senior Secondary(12th)**, *Sri Chaitanya Narayana*, Hyderabad, India
2011 **Secondary(10th)**, *Narayana Olympiad School*, Hyderabad, India

▬▬▬ Key Research Interests/Topics

Machine Learning over Graphs, Federated Learning, Differential Privacy, Program Synthesis & Debugging.

▬▬▬ Publications

Preprints

2023 <u>Aashish Kolluri</u>, Sarthak Choudhary, Bryan Hooi, Prateek Saxena, *RETEXO: Scalable Neural Network Training over Distributed Graphs* : **Under Review** arXiv:2302.13053

2022 <u>Aashish Kolluri</u>, Kareem Shehata, Prateek Saxena, *An Empirical Snapshot of Differential Privacy in Graph Analysis Applications*: **Under Review**

Published

2023 Bo Wang, <u>Aashish Kolluri</u>, Ivica Nikolic, Teodora Baluta, Prateek Saxena, *User-Customizable Transpilation for Scripting Languages*: **OOPSLA'23**

2022 <u>Aashish Kolluri</u>, Teodora Baluta, Bryan Hooi, Prateek Saxena, *LPGNet: Link Private Graph Networks for Node Classification*: **CCS'22**(*21.8% acc.rate*)

2021 <u>Aashish Kolluri</u>, Teodora Baluta, Prateek Saxena, *Private Hierarchical Clustering for Federated Networks*: **CCS'21**(*approx 18% acc.rate*)

2021 Bo Wang, Teodora Baluta, <u>Aashish Kolluri</u>, Prateek Saxena, *SYNGUAR: Guaranteeing Generalization in Programming by Examples*: **ESEC/FSE'21**(*24.5% acc.rate*)

2021,
Best-Paper Shiqi Shen, <u>Aashish Kolluri</u>, Zhen Dong, Prateek Saxena, Abhik Roychoudhury, *Localizing Vulnerabilities Statistically From One Exploit*: **AsiaCCS'21**(*18.4% acc.rate*)

2019 <u>Aashish Kolluri</u>, Ivica Nikolic, Ilya Sergey, Aquinas Hobor, Prateek Saxena, Exploiting the laws of order in smart contracts: **ISSTA'19** (slides|artifact) *(20.4% acc.rate)*

2018 Ivica Nikolic, <u>Aashish Kolluri</u>, Ilya Sergey, Prateek Saxena, Aquinas Hobor, *Finding The Greedy, Prodigal, and Suicidal Contracts at Scale*: **ACSAC'18** (slides|artifact)*(20.1%)*

2018 Sourav Das, <u>Aashish Kolluri</u>, Prateek Saxena, Haifeng Yu (alphabetical order of last name), *Invited Paper - on the Security of Blockchain Consensus Protocols*: **ICISS'18**

Technical skills

Advanced	Python, PyTorch
Intermediate	C/C++, TensorFlow, KLEE, Z3, Solidity
Basic	Any online resource/library

Teaching

Spring 2019	**Introduction to Computer Security**, *CS 3235*
Fall 2019	**Systems Security**, *CS 5231*

Conference/Journal Reviewer

2022	**Transactions on Dependable and Secure Computing**, *TSDC'22*
2021	**International Symposium on Information Theory**, *ISIT'21*
Sub-Review	**USENIX'21, CCS'21**

Achievements

2021	**Best paper award**, *AsiaCCS'21*
2018–2022	**Research Scholar Fellowship**, *National University Of Singapore*
2011–2013	**Scholastic**

- **ALL INDIA RANK 286 (99.998 percentile)** in **JEE-Advanced 1,300,000 candidates**
- K.V.P.Y(Kishore Vaigyanik Protsahan Yojana) scholarship, **175th among 150,000 candidates**

Talks & Panels

Nov 2022	**LPGNet: Link Private Networks for Node Classification**, *Google*, Invited-Internal Talk
July 2021	**LPGNet: Link Private Networks for Node Classification**, *ETH Zurich*, Invited Talk
July 2021	**Private Hierarchical Clustering in Federated Networks**, *Brave Research*, Invited Talk
August 2019	**Panel - Industry/Academics after PhD: prospects and challenges**, *@ NUS*, Moderator
August 2019	**Exploiting the Laws of Order in Smart Contracts**, *@ Resrach Week, NUS*, Invited talk
June 2018	**Blockchain Fundamentals - Smart Contract Security**, *@ Zilliqa*, Invited talk
May 2018	**Smart Contract Security: Hacking 34,200 Smart Contracts**, *@ Paypal Innovation Labs, Singapore*, Invited talk

Industry Experience

May–July '20	**Aqilliz**, *Edison Lim*
	Design of the privacy platform in Aqilliz
May–July '16	**Flipkart Internet Pvt. Ltd.**, *Vijayant Singh*
	Project JIRO-Anomaly Detection for Flipkart Cloud's Alerting Service

References

Prateek Saxena	Associate Professor, National University of Singapore, prateeks@comp.nus.edu.sg
Bryan Hooi	Assistant Professor, National University of Singapore, bhooi@comp.nus.edu.sg
Abhik Roychoudhury	Provost's Chair Professor, National University of Singapore, abhik@comp.nus.edu.sg