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117416

Singapore

✉ aashish7@comp.nus.edu.sg

📄 ashgeek.github.io

📌 Aashish Kolluri

Google Scholar

Aashish Kolluri

Education

- 2018–**PhD**, *National University Of Singapore*, Singapore, with Prateek Saxena.
Ongoing
- 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.

Research Interests

Differentially private analytics on federated networks and redesigning personalization for the privacy-aware users. I also have experience in Blockchains, Program Synthesis and Software Debugging.

Publications

- 2021 [Aashish Kolluri](#), Teodora Baluta, Prateek Saxena, *Private Hierarchical Clustering for Federated Networks*: **To appear in CCS'21**
- 2021 Bo Wang, Teodora Baluta, [Aashish Kolluri](#), Prateek Saxena, *SYNGUAR: Guaranteeing Generalization in Programming by Examples*: **To appear, FSE'21** (24.5% acc.rate)
- 2021 Shiqi Shen, [Aashish Kolluri](#), Zhen Dong, Prateek Saxena, Abhik Roychoudhury, *Localizing Vulnerabilities Statistically From One Exploit*: **AsiaCCS'21** (18.4% acc.rate), **Best-paper award**
- 2019 [Aashish Kolluri](#), 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, [Aashish Kolluri](#), Ilya Sergey, Prateek Saxena, Aquinas Hobor, *Finding The Greedy, Prodigal, and Suicidal Contracts at Scale*: **ACSAC'18** (slides|artifact) (20.1%)
- 2018 Sourav Das, [Aashish Kolluri](#), Prateek Saxena, Haifeng Yu (alphabetical order of last name), *Invited Paper - on the Security of Blockchain Consensus Protocols*: **ICISS'18**

Teaching

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

Program committee

- 2021 **International Symposium on Information Theory**, *ISIT'21*.

Achievements

- 2021 **Best paper award**, *AsiaCCS'21*.
- 2018–2022 **Research Scholar Fellowship**, *National University Of Singapore*.
- 2011–2013 **Scholastic**.
- Achieved **ALL INDIA RANK 286 (99.998 percentile)** in **JEE-Advanced 1,300,000 candidates**.
 - Awarded the K.V.P.Y(Kishore Vaigyanik Protsahan Yojana) scholarship, **175th rank among 150,000 candidates**.
 - Secured **146 rank (99.95 percentile)** in EAMCET.
 - Secured **First Rank** district level in **S.L.S.T.S.E**

Talks & Panels

- July 2021 **Private Hierarchical Clustering in Federated Networks**, *Brave Research Team*, Invited Talk.
- August 2019 **Panel - Industry/Academics after PhD: prospects and challenges**, @ *Resarch Week, NUS*, Moderator.
- August 2019 **Exploiting the Laws of Order in Smart Contracts**, @ *Resarch Week, NUS*, Invited talk.
- July 2019 **Exploiting the Laws of Order in Smart Contracts**, @ *ISSTA'19*, Conference talk.
- Dec 2018 **Finding the Greedy, Prodigal and Suicidal Contracts**, @ *ACSAC'18*, Conference 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 **Aqilliz**, *Edison Lim*.
- 2020–July 2020 Design of the privacy platform in Aqilliz
- Designed their differentially private recommender system platform.
 - Employed local differential private techniques to do social recommendation.
 - Tested the private techniques on synthetic and real world datasets for utility loss.
- May **Flipkart Internet Pvt. Ltd.**, *Vijayant Singh*.
- 2016–July 2016 Project JIRO-Anomaly Detection for Flipkart Cloud's Alerting Service
- Finding better algorithms for Anomaly Detection while reducing False Positives.
 - Developed an engine which compares existing algorithms. Find the presentation [here](#).

Technical skills

- Advanced Python, Geth (Ethereum), Z3, KLEE
- Intermediate C, C++, PyTorch, TensorFlow, MySQL, Php, GNUPlot, R, Solidity, Z3, SkLearn, Latex
- Basic Any online resource/library

References

- Prateek Saxena Associate Professor, National University of Singapore, prateeks@comp.nus.edu.sg
- Abhik Roy-choudhury Provost's Chair Professor, National University of Singapore, abhik@comp.nus.edu.sg