

AkshithGunasekaran

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Research

- current **Kernel Attack Surface Reduction using Binary Specialization Techniques.**
Supported by the Office of Naval Research (ONR)
- 2019 **Balancing Image Privacy and Usability with Thumbnail-Preserving Encryption.**
Accepted at NDSS 2019. photoencryption.org

Education

- (2022) **PhD Computer Science, Oregon State University.**
Area of Focus: Security, Applied Cryptography, AI
Advisors: [Dr. Rakesh Bobba](#), [Dr. Yeongjin Jang](#)
Coursework:
CS Theory (algorithms, graph theory)
Security (operating systems, system security, cryptography)
AI (artificial intelligence)
- 2016 **B.Tech Computer Science, SRM University.**
Projects: Asia-Pacific Robotics Contest, Knowledge Graphs for Search Engines
GPA: 8.6/10

Work

- 2015 - 2017 **Software Developer, Simpl.**
A fintech startup that leverages digital assets and reputation to lend micro credit.
Built the first MVP and onboarded 5k users to raise a seed capital of 2M\$.
Built the data engineering pipeline, for Business Intelligence queries.
Tools: Ruby on Rails, Python, Redis, Spark, Cassandra, Kafka, AWS, git.
- 2018 **Winter Intern - MIT Media Lab, Human Dynamics Group.**
Collaborated with [Dr. Dazza Greenwood](#) on using blockchain as a source of self-sovereign identity.

Other Activities

IEEE Security and Privacy 2020.
Serving as a member of the shadow program committee.

External Reviewer.
2019 CCS : ACM Conference on Computer and Communications Security
2019 RTAS : IEEE Real-Time and Embedded Technology and Applications Symposium
2019 DSN : IEEE International Conference on Dependable Systems and Network

Security Club.
CTF Team - OSUSEC