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Akshith Gunasekaran

Education

PhD in CS, Oregon State University, Corvallis.

expected 2022

Area of Focus: System Security, Applied Cryptography, Al

Advisors: Rakesh Bobba, Yeongjin Jang

Coursework: CS Theory (algorithms, graph theory), Security (operating systems,

system security, cryptography), AI (artificial intelligence)

BTech in CS, SRM University, Chennai.

2012 - 2016

Activities: ABU Asia-Pacific Robot Contest, Knowledge Based Search Engine

Venture: Simpl, a fintech startup.

Publication

Multi-K: Kernel multiplexing framework.

2020

A framework for multiplexing multiple specialized kernels for attack surface reduction. Supported by the Office of Naval Research (ONR)

Balancing Image Privacy and Usability with Thumbnail- 2019 Preserving Encryption.

Accepted at NDSS 2019. photoencryption.org

Work

Intern - MIT Media Lab, Human Dynamics Group.

2017

Mentor: Dazza Greenwood

Prototyped applictions for self-sovereign identity with blockchain as a trust anchor.

Tools: Node, Ethereum, web3.js, TravisCI

Software Developer, Simpl.

2015 - 2017

Built the first MVP and onboarded 5k users to raise a seed capital of 2M\$. Scaled the service using an event based pub-sub microservice architecture. Built the data engineering pipeline, for Business Intelligence queries. Tools: Ruby on Rails, Python, Redis, Kafka, RabbitMQ, Spark, Cassandra.

Activities

CTF Team, OSUSEC.

Shadow Program Committee , <i>IEEE Security and Privacy</i> .	2020
External Reviewer , ACM Conference on Computer and Communications Security.	2019
External Reviewer , <i>IEEE Real-Time and Embedded Technology</i> and Applications Symposium.	2019
External Reviewer , <i>IEEE International Conference on Dependable Systems and Network.</i>	2019
Teaching Assistant , CS290 Web Technologies and Web Security.	2018