

Supraja Sridhara

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Education

- 2021–Present **ETH Zürich**, *PhD candidate*.
Secure and Trustworthy Systems group, Department of Computer Science
- 2019–2021 **ETH Zürich**, *M.Sc.*.
Computer Science
- 2016 **Amrita Vishwa Vidyapeetham(University)**, *B.Tech.*
Computer Science and Engineering

Research

Devlore: Extending Arm CCA to Integrated Devices. A Journey Beyond Memory to Interrupt Isolation,
under submission.

Andrin Bertschi*, [Supraja Sridhara*](#), Friederike Groschupp, Mark Kuhne, Benedict Schlüter, Clément Thorens, Nicolas Dutly, Srdjan Capkun, Shweta Shinde

Aster: Fixing the Android TEE Ecosystem with Arm CCA,
under submission.

Mark Kuhne, [Supraja Sridhara](#), Andrin Bertschi, Nicolas Dutly, Srdjan Capkun, Shweta Shinde

Sigy: Breaking Intel SGX Enclaves with Malicious Exceptions & Signals,
AsiaCCS '25.

[Supraja Sridhara](#), Andrin Bertschi, Benedict Schlüter, Shweta Shinde

WeSee: Using Malicious #VC Interrupts to Break AMD SEV-SNP,
IEEE S&P '24.

Benedict Schlüter, [Supraja Sridhara](#), Andrin Bertschi, Shweta Shinde

Heckler: Breaking Confidential VMs with Malicious Interrupts,
Usenix Security '24.

Benedict Schlüter, [Supraja Sridhara](#), Mark Kuhne, Andrin Bertschi, Shweta Shinde

Acai: Extending Arm Confidential Computing Architecture Protection from CPUs to Accelerators,
Usenix Security '24.

[Supraja Sridhara](#), Andrin Bertschi, Benedict Schlüter, Mark Kuhne, Fabio Aliberti, Shweta Shinde

Confidential Computing with Heterogeneous Devices at Cloud-Scale,
ACSAC '24.

Aritra Dhar, [Supraja Sridhara](#), Shweta Shinde, Srdjan Capkun, Renzo Andri

Global Distributed Secure Mapping of Network Addresses,
TAURIN@SIGCOMM '21.

[Supraja Sridhara](#), François Wirz, Joeri de Ruiter, Caspar Schutijser, Markus Legner, Adrian Perrig

Work Experience

- August 2016 – **Software Engineer**, CISCO SYSTEMS INDIA PVT. LTD., Bangalore, Cloud Platform and Services Group .
August 2019
Service Catalog: Developing REST APIs in Java, improving performance by clustering indices on database and introducing threading, Containerization using Docker and Kubernetes
Falcon: Design and implementation of micro services in Go programming language, deployed in a containerized clustered environment using Docker and Kubernetes, data modeling for ArangoDB

Internship

- July 2024 – **Intel Labs**, Remote, Zurich.
September 2024 Worked on securing device accesses with confidential computing and trusted IO.
- January 2016 **Cisco Systems India Pvt. Ltd.**, Bangalore, Cloud Platform and Services Group .
– July 2016 *Service Catalog*: Design and implementation of an email template framework to read from FTL files to trigger emails on events
- May 2014 – **Indian Institute of Science**, Bangalore, Cloud Systems Lab of Supercomputer
July 2014 *Education and Research Centre*.
Worked on analysis of Hardware Abstraction Layer(HAL) and its role in interacting with the operating system for a virtualization project in the bioinformatics lab