Supraja Sridhara

✉ supraja.sridhara@inf.ethz.ch
suprajas.com

Education

2021–Present **ETH Zürich**, *PhD candidate*.
Secure and Trustworthy Systems group, Department of Computer Science

2019–2021 **ETH Zürich**, *M.Sc.*, 5.7/6.0.
Computer Science

2012–2016 **Amrita Vishwa Vidyapeetham (University)**, *B.Tech*, 9.91/10, Gold Medal.
Computer Science and Engineering

Work Experience

August 2016 – August 2019 **Software Engineer**, Cisco Systems India Pvt. Ltd., Bangalore, Cloud Platform and Services Group .
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

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, Distinguished Paper Award.
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

Awards

2024 **Distinguished Paper Award** - for the paper WeSee: Using Malicious #VC Interrupts to Break AMD SEV-SNP at IEEE Symposium for Security and Privacy 2024

2016 **Gold medal** - in B.Tech in Computer Science and Engineering

2013, 2014, 2015 **Certificate of Merit** - for securing first place in the examinations held during the academic year 2012-13, 2013-14 and 2014-15

Invited Talks

July 2025 **System Security Seminar Series**, *Max Planck Institute for Software Systems*, Saarbrucken, Germany,
Extending the Boundaries of Confidential Computing from CPUs to Accelerators.

June 2025 **Spotlight Lightening Talk**, *Confidential Computing Summit*,
San Francisco, USA,
Acai: Protecting Accelerator Execution with Arm CCA.

March 2025 **Huawei Future Device Technology Summit - Aurora Summit**, *Huawei*,
Oulu, Finland,
Extending the Boundaries of Confidential Computing from CPUs to Accelerators.

March 2024 **Lunch Seminar**, *Systems Group, ETH Zurich*,
Zurich, Switzerland,
Acai: Protecting Accelerator Execution with Arm CCA.

November 2023 **ZISC Seminar**, *Zurich Center for Information Security and Privacy Center (ZISC)*,
Zurich, Switzerland,
Acai: Protecting Accelerator Execution with Arm CCA.

Conference Talks

August 2024 **USENIX Security Symposium'24**, Philadelphia, USA,
Acai: Protecting Accelerator Execution with Arm CCA.

August 2021 **TAURIN@SIGCOMM'21**, Online,
Global Distributed Secure Mapping of Network Addresses.

Internship

July 2024 – September 2024 **Intel Labs**, *Remote, Zurich*.
Worked on securing device accesses with confidential computing and trusted IO.

January 2016 – July 2016 **Cisco Systems India Pvt. Ltd.**, *Bangalore, Cloud Platform and Services Group* .
Service Catalog: Design and implementation of an email template framework to read from FTL files to trigger emails on events

Teaching@ETH Zürich

2022, 2023, 2025 Teaching Assistant for **Computer Networks**

2023, 2024 Teaching Assistant for **System Security**

2021, 2022 Teaching Assistant for **Information Security Lab**

2021 Student Teaching Assistant for **Applied Cryptography**

2020 Student Teaching Assistant for **Concepts of Object Oriented Programming**

Volunteer Experience

June 2018 – August 2019 **U&I Teach**, *Akkamahadevi Seva Samaja*.
Tutor under privileged children in Science, Mathematics and English every week