Gaukas Wang

E-mail: i@gaukas.wang | GitHub: github.com/gaukas | Portfolio: gauk.as

EDUCATION

University of Colorado Boulder Boulder, CO
Computer Engineering

Bachelor of Science (B.Sc.), *Summa Cum Laude* *Aug 2018 - May 2021*
Doctor of Philosophy (Ph.D.) *Aug 2022 - May 2027(est.)*

RESEARCH AREA

Anti-Censorship: Censorship Analysis, Circumvention, Measurements
Privacy: Application Fingerprint, Traceability, Privacy Leakage/Protection
Network: Network Analysis, Measurements, Traffic Modeling/Classification

SELECTED PUBLICATIONS

MRTOM: Mostly Reliable Totally Ordered Multicast Distributed Systems, Multicast
To appear at ICDCS'2023 *July 2023*

Chasing Shadows: A security analysis of the ShadowTLS proxy Censorship, Computer Network
In Proceedings of FOCI'2023 *Feb 2023*

Acuerdo: Fast Atomic Broadcast over RDMA Atomic Broadcast, RDMA, Consensus
In Proceedings of ICPP'2022 *Aug 2022*

OTHER SELECTED CONTRIBUTIONS

uTLS & TLSFingerprint.io
Low-level access TLS ClientHello mimicry library in Go & TLS ClientHello statistics/analyzer in Go

transportc & RTCSocks
Pluggable WebRTC DataChannel transport & SOCKS5 Proxy Tool in Go

CVE-2021-36539
Unbound File Access vulnerabilities in Canvas LMS by Instructure, Inc.

CVE-2021-28681
DTLS Man-in-the-Middle(MITM) vulnerabilities in pion/webrtc by Pion

WORKING EXPERIENCE

Graduate Student Researcher Go/Rust | Censorship, Cybersecurity, Network
University of Colorado Boulder *Aug 2022 - Present*

Fullstack Software Engineer C++/JavaScript/Python | Fullstack, MySQL, REST API
Intelepeer Cloud Communications LLC *Aug 2021 - June 2022*

Undergraduate Research Assistant/Researcher C++/Go | Distributed Systems, Network, RDMA
University of Colorado Boulder *Apr 2020 - Apr 2022*

TEACHING EXPERIENCE

Teaching Assistant
University of Colorado, Boulder

ECEN-CSCI 4313-5313-7000: *Concurrent Programming* *Fall'20, Fall'22*
ECEN-CSCI 4313-5313-7000: *Concurrent Programming* *Fall'20, Fall'22*
ECEN 1310: *C Programming for ECE* *Spring'20, Spring'21*