Gaukas Wang

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

EDUCATION

University of Colorado, Boulder
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

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

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

OTHER SELECTED CONTRIBUTIONS

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

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

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

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

WORKING EXPERIENCE

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

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

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

TEACHING EXPERIENCE

Teaching Assistant
University of Colorado, Boulder

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