Gaukas Wang

E-mail: i@gaukas.wang | GitHub: github.com/gaukas | Site: 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.)*

AREAS OF INTEREST

Internet Censorship: Censorship Circumvention, Measurements, and Techniques
Cybersecurity: Application Security, Network Security, System Security
Network: Network Analysis/Measurements, Network sTraffic Modeling/Classification

SELECTED PUBLICATIONS

Chasing Shadows: A security analysis of the ShadowTLS proxy	
Go/Rust, Network Analysis/Measurements, Program Analysis, Transport Layer Security(TLS)	*FOCI'2023*
Acuerdo: Fast Atomic Broadcast over RDMA	
C++, Concurrent Programming, Remote Direct Memory Access(RDMA)	*ICPP'2022*

OTHER CONTRIBUTIONS

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

RTCSocks	In Progress

SOCKS5 Proxy Tool utilizing WebRTC DataChannel transport

uTLS
Low-level access TLS fingerprint mimicry library

transportc
WebRTC DataChannel pluggable transport

WORKING EXPERIENCE

Graduate Researcher	University of Colorado, Boulder
Censorship, Cybersecurity, Network	*Aug 2022 - Present*
Fullstack Software Engineer	Intelepeer Cloud Communications LLC
C++/Python, Frontend Web Development, Data Batch Processing, MySQL	*Aug 2021 - June 2022*
Undergraduate Research Assistant/Researcher	University of Colorado, Boulder
Network, Remote Direct Memory Access(RDMA), Memory Coherency	*Apr 2020 - Apr 2022*

TEACHING EXPERIENCE

Teaching Assistant	University of Colorado, Boulder
ECEN-CSCI 4313-5313-7000: Concurrent Programming	*Fall'20, Fall'22*
Undergraduate Teaching Assistant	University of Colorado, Boulder
ECEN 1310: C Programming for ECE	*Spring'20, Spring'21*