

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

Doctor of Philosophy (Ph.D.)

Aug 2018 - May 2021

Aug 2022 - May 2027(est.)

AREAS OF INTEREST

Anti-Censorship: Censorship Circumvention, Measurements, and Techniques

Privacy: Application Fingerprint, Traceability, Privacy Leakage/Protection

Network: Network Analysis/Measurements, Network Traffic Modeling/Classification

SELECTED PUBLICATIONS

Chasing Shadows: A security analysis of the ShadowTLS proxy

Go/Rust | Censorship/Network Measurements, Code Analysis, Transport Layer Security(TLS)

FOCI'2023

Acuerdo: Fast Atomic Broadcast over RDMA

C++ | Concurrent Programming, Remote Direct Memory Access(RDMA)

ICPP'2022

OTHER SELECTED CONTRIBUTIONS

CVE-2021-36539

Threat: Medium | Unbound File Access vulnerabilities in Canvas LMS by Instructure, Inc.

CVE-2021-28681

Threat: Medium | DTLS Man-in-the-Middle(MITM) vulnerabilities in pion/webrtc by Pion

uTLS & TLSFingerprint.io

Go/Python | Low-level access TLS fingerprint mimicry library & TLS fingerprint statistics/analyzer

transportc & RTC SOCKS

Go | Pluggable WebRTC DataChannel transport & SOCKS5 Proxy Tool using it

WORKING EXPERIENCE

Graduate Researcher

Censorship, Cybersecurity, Network

University of Colorado, Boulder

Aug 2022 - Present

Fullstack Software Engineer

C++/Python, Frontend Web Development, Data Batch Processing, MySQL

Intelepeer Cloud Communications LLC

Aug 2021 - June 2022

Undergraduate Research Assistant/Researcher

Network, Remote Direct Memory Access(RDMA), Memory Coherency

University of Colorado, Boulder

Apr 2020 - Apr 2022

TEACHING EXPERIENCE

Teaching Assistant

ECEN-CSCI 4313-5313-7000: Concurrent Programming

University of Colorado, Boulder

Fall'20, Fall'22

Undergraduate Teaching Assistant

ECEN 1310: C Programming for ECE

University of Colorado, Boulder

Spring'20, Spring'21