

# 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 & RTC.Sockets

*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

*University of Colorado Boulder*

Go/Rust | Censorship, Cybersecurity, Network

*Aug 2022 - Present*

### Fullstack Software Engineer

*Intelepeer Cloud Communications LLC*

C++/JavaScript/Python | Fullstack, MySQL, REST API

*Aug 2021 - June 2022*

### Undergraduate Research Assistant/Researcher

*University of Colorado Boulder*

C++/Go | Distributed Systems, Network, RDMA

*Apr 2020 - Apr 2022*

## TEACHING EXPERIENCE

### Teaching Assistant

*University of Colorado Boulder*

*ECEN-CSCI 4133-5133: Fundamentals of Computer Security*

*Expected Fall'23*

*ECEN-CSCI 4313-5313-7000: Concurrent Programming*

*Fall'20, Fall'22*

*ECEN 1310: C Programming for ECE*

*Spring'20, Spring'21*

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