

Gaukas Wang

720-366-4156 | i@gaukas.wang | LinkedIn.com/in/gaukaswang/ | GitHub.com/Gaukas | Resume

EDUCATION

University of Colorado Boulder

*B.Sc. in Electrical and Computer Engineering, **Summa Cum Laude***

Aug 2018 - May 2021

Ph.D. in Electrical Engineering

Aug 2022 - May 2027

RESEARCH INTERESTS

- **Censorship Circumvention**
- **Zero-Trust Network/Systems**
- **Zero-Knowledge Proof**
- **Hardware Security**

EXPERIENCE

Intelepeer Cloud Communications LLC

Software Engineer

Aug 2021 - June 2022

- Build, improve and maintain a software infrastructure that provides users access to a Communication-Platform-as-a-Service (cpaas) operated by IntelePeer.

Tunnel.Work

CTO

Aug 2017 - Present

- Single-handedly operated this incorporated anti-censorship organization to deliver robust and affordable censorship circumvention solutions to end users.

University of Colorado Boulder

Researcher @ Computer Systems Lab CU

Jan 2021 - Apr 2022

- In the group Refraction Networking. Advised by Prof. Eric Wustrow.
- Built a WebRTC based, DTLS(UDP) Transport for a novel censorship circumvention tool named Conjure.

Research Assistant @ CU-NVM, Computer Systems Lab

Apr 2020 - Apr 2021

- In the group CU-NVM of Systems Lab at CU. Advised by Prof. Joseph Izraelevitz.
- Field of research: Remote Direct Memory Access (RDMA)

Teaching Assistant @ Department of Electrical, Computer and Energy Engineering

Jan 2020 - Apr 2021

- In ECEN 4313/5033, CSCI 4830/7000 Concurrent Programming (Remote) taught by Professor Joseph Izraelevitz.
- My work includes holding weekly office hours and conduct troubleshooting sessions upon requests.

Sarus Lifting

Software/Firmware DevOps Engineer

Aug 2020 - Apr 2021

- Software Engineer: Provide critical designs and develops for a mission-critical distributed embedded system.
- DevOps: Administrate the code base, implement and maintain CI/CD workflows.

SELECTED PROJECTS & CONTRIBUTIONS

Seed2SDP | Golang, WebRTC

- A seed-based SDP generator which simplify the signal process for WebRTC Protocol.

TranspoRTC | Golang, WebRTC

- A pluggable network transport implemented based on WebRTC datachannel.

DTLS Fingerprints Mismatch in pion/webrtc | CVE-2021-28681

Mar 2021

- A moderate-level CVE impacting a widely used WebRTC API library.

Canvas LMS File Oracle Attack

Sept 2021

- An exploit allowing any Canvas LMS user to bypass file permission restrictions.

CONTRIBUTIONS, AWARDS & HONORS

Undergraduate Outstanding Accomplishment Award <i>University of Colorado Boulder, ECEE</i>	April 2021
Degree Latin Honor: Summa Cum Laude <i>University of Colorado Boulder</i>	May 2021
Dean's List <i>University of Colorado Boulder</i>	2018 – 2021

TRIVIA

Immigration Status: F-1

Extracurricular Activities: I'm a pianist, a videogamer, a content creator. In additon to a full-time engineer.