

# Gaukas Wang

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## EDUCATION

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### 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

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

## EXPERIENCE

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### 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

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### 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

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

## TRIVIA

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**Immigration Status:** F-1

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