

# MICHELLE HO TRAN

E: [michelle.h.tran@colorado.edu](mailto:michelle.h.tran@colorado.edu) • L: [www.linkedin.com/in/michelletran02](https://www.linkedin.com/in/michelletran02) • G: <https://github.com/Moppit>

## EDUCATION

### University of Colorado Boulder Class of 2023

*Masters in Computer Science*

- Bachelors Accelerated Masters Program

### University of Colorado Boulder Class of 2022

*Computer Science, Summa Cum Laude with Honors*

- CEAS Silver Medal Award Finalist
- CS Department's Outstanding Graduate
- GPA: 3.99

## SKILLS

- Programming (in order of proficiency): Python, C++, HTML/CSS/JS, Java, Go, C, SQL, PHP
- Terminal/Bash (macOS/Ubuntu/CentOS), Command Prompt (Windows)
- SCM (Git and Github/Gitea/Bitbucket)
- Mentorship/Teaching
- Communication
- Time management

## PROFESSIONAL EXPERIENCE

### Twilio Inc.

Denver, CO

*Software Engineering Intern*

*Summer 2020, Summer 2021, & Summer 2022 (present)*

- Worked alongside software engineers to improve billing and accounts backend systems
- Paginated an internal endpoint, setup metrics monitoring infrastructure, added status features to admin dashboard, migrated obsolete servers, fixed IP management-related email verification bug
- Researched solutions to harden testing infrastructure for account management service and major platform resellers
- Used Golang, AWS (DynamoDB), Kubernetes, Buildkite, MySQL, and Ruby on Rails for the above tasks

### BOLD Student Success Center

Boulder, CO

*Lead Tutor*

*Since Fall 2019 (present)*

- Providing academic support for underrepresented students in engineering and mentoring new tutors
- Developed training modules to prepare new tutors for virtual tutoring during the coronavirus pandemic

### CU Boulder Computer Science Department

Boulder, CO

*Course Assistant for: CSCI 1300: Intro to CS, CSCI 3104: Algorithms*

*Spring 2019 & Spring 2021*

- Answered student questions at recitations and hosted office hours

### FreeWave Technologies Inc.

Boulder, CO

*System Test Engineering Intern*

*Summer 2019*

- Wrote Python scripts to automate testing on legacy and ZumLink radios
- Developed power stress and modbus serial tests for FGR radios and boot timing and parameter tests for ZumLinks
- Developed a tool that generates setting vector files using ACTS configurations for the DevOps team

## PASSION PROJECTS

### Publication: "Practical Methods for the Embroidery Problem"

Halifax, Nova Scotia

*Proceedings of the 33<sup>rd</sup> Canadian Conference on Computational Geometry*

*Aug 10-12th 2021*

- Analyzed the complexity of the Embroidery Problem and implemented/benchmarked various solvers
- Published: (p. 65-71): <https://projects.cs.dal.ca/cccg2021/wordpress/wp-content/uploads/2021/08/CCCG2021.pdf>

### YOU'RE @ CU Research Program

Boulder, CO

*ATLAS Visualab Undergraduate Researcher*

*Spring 2022*

- Investigating data visualization accessibility for folks with intellectual & developmental disabilities (IDD)

### Go Girl! Web App for Girls Inc. Metro Denver

Denver, CO

*Blueprint Boulder Backend Software Developer*

*Spring & Summer 2021*

- Developed a gamified online platform to remotely inspire girls be strong, smart, and bold during the pandemic
- Architected website infrastructure to be both functional and maintainable for the nonprofit's limited technical staff

## LEADERSHIP

- Co-Founder & President, Blueprint Boulder (2020-2022)
- Technical Workshop Director (2021) & Secretary (2020), CU Women in Computing
- Co-Captain, Buff VEX Robotics (2019-2020)
- Marketing, CU Cybersecurity Club (2018-2019)

## HONORS & AWARDS

- Rudolph & Helen Gagg Scholarship (2019-2021)
- Quarton Fund Scholarship (2020-2021)
- Bennett-Demeke Family Endowment (2021)
- Responsible Computing Fellowship (2020)
- NCWIT's National Award for Aspirations in Computing (2018)