MICHELLE HO TRAN

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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)
- SCM (Git and Github)
- Mentorship/Teaching
- Organization
- Communication
- Time management

PROFESSIONAL EXPERIENCE

CU Boulder Computer Science Department **Boulder, CO**
Teaching Assistant for CSCI 2275: Programming & Data Structures *Fall 2022 (present)*
- Taught recitations and answered student questions at office hours
- Created and graded quizzes and recitation materials

Twilio Inc. **Denver, CO**
Software Engineering Intern *Summer 2020, Summer 2021, & Summer 2022*
- Worked alongside software engineers to improve billing and accounts backend systems
- Paginated an internal endpoint, setup metrics monitoring infrastructure, migrated obsolete servers, fixed IP management-related email verification bug, built continuous integration pipeline infrastructure
- Researched solutions to harden testing infrastructure for account management service and major platform resellers
- Used Golang, AWS (DynamoDB), Kubernetes, Buildkite, mySQL, Kayenta, & Ruby on Rails for the above tasks

BOLD Student Success Center **Boulder, CO**
Lead Tutor *Fall 2019-Spring 2022*
- 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

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

RESEARCH EXPERIENCE

Publication: "Practical Methods for the Embroidery Problem" **Halifax, Nova Scotia**
Proceedings of the 33rd 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://cccg.ca/proceedings/2021/CCCG2021.pdf

Internet Rules Lab **Boulder, CO**
Graduate Researcher *Fall 2022 (present)*
- Evaluating and creating computer science curricula that integrates cybersecurity into AI education

YOU'RE @ CU Research Program **Boulder, CO**
ATLAS Visualab Undergraduate Researcher *Spring 2022*
- Investigating data visualization accessibility for folks with intellectual & developmental disabilities (IDD)

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)