MICHELLE HO TRAN

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EDUCATION

University of Colorado Boulder Class of 2022
Bachelors in Computer Science
- Engineering Honors Program
- GPA: 3.99

University of Colorado Boulder Class of 2023
Masters in Computer Science
- Bachelors Accelerated Masters Program

SKILLS

- Programming (from most to least proficiency): Python, C++, HTML/CSS/JS, Go, C, SQL, PHP
- Terminal/Bash (macOS/Ubuntu), Command Prompt (Windows)
- SCM (Git and Github/Gitea/Bitbucket)
- Communication
- Time management

PROFESSIONAL EXPERIENCE

Twilio Inc.   **Denver, CO**
Software Engineering Intern   *May 2020-Aug 2020 & June 2021-Aug 2021*
- 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, Terraform, Splunk, mySQL, and Ruby on Rails

BOLD Student Success Center   **Boulder, CO**
Lead Tutor   *Aug 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 (Spring 2019), CSCI 3104 (Spring 2021)   *Jan 2019-May 2019 & Jan 2021-May 2021*
- Answered student questions at recitations and hosted office hours
- Collaborated with instructors by reviewing course material and providing feedback prior to release

FreeWave Technologies Inc.   **Boulder, CO**
System Test Engineering Intern   *May 2019-Aug 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 33rd Canadian Conference on Computational Geometry   *Aug 10-12th 2021*
- Analyzed the complexity of the Embroidery Problem and implemented/benchmarked various solvers
- Link to Publication: https://projects.cs.dal.ca/cccg2021/wordpress/wp-content/uploads/2021/08/CCCG2021.pdf

***Go Girl!* Web App for Girls Inc. Metro Denver**   **Denver, CO**
Blueprint Boulder Backend Software Developer   *Jan 2021-Aug 2021*
- Developed a gamified online platform to remotely inspire girls be strong, smart, and bold during the pandemic
- Architected and implemented website infrastructure to be both functional and maintainable for the nonprofit's limited technical staff

LEADERSHIP

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