

Caleb G Rotello

GRADUATE STUDENT, QUANTUM ENGINEERING

🏠 caleb.rotello.dev | 📧 calebrotello | 📺 calebrotello

Education

Colorado School of Mines

M.S. IN QUANTUM ENGINEERING

- Advisor: Dr. Eliot Kapit

Golden, Colorado

May 2021 - Present

Colorado School of Mines

B.S. IN COMPUTER SCIENCE

- Major GPA: 4.0, Overall: 3.79
- Dean's List

Golden, Colorado

Aug. 2018 - May 2021

Technical Skills

Programming Languages/Tools Cirq, C++, Python

Relevant Coursework Quantum Information / Programming / Many-Body Physics, Computer Simulations, Algorithms

Work Experience

Research & Development Software Intern

ARCHERDX/INVITAE

- Created analysis code for research on acute myeloid leukemia
- Wrote and implemented novel algorithms to efficiently detect DNA sample errors
- Implemented software to pair RNA alpha and beta sequences across multiple cells
- Contributed to AMP Chemistry analysis software for cancer genomics
- Refactored Python and C++ code

Boulder, Colorado

May 2020 - Jul. 2020

Health & Wellness App Developer

CONTRACTING WITH COUNTY POLICE DEPARTMENTS

- App development in XCode
- Wrote secure custom API calls to AWS Lambda
- Developed application backend to securely handle personal information
- Worked with non-technical professionals to determine development goals

Denver, Colorado

Jun. 2019 - Dec. 2019

Achievements

2020 **Fourth Best Overall Hack**, Hack CU VI

2019 **Semi-Finalist**, NASA RASC-AL

2017 **Eagle Scout**, Boy Scouts of America

University of Colorado

Colorado School of Mines

Troop 794

Extracurricular Activities

Association for Computing Machinery

MEMBER

- Participated in hackathons, programming competitions, and projects
- Attended weekly lectures from academics and professionals

Colorado School of Mines

Aug. 2018 - Present

Boy Scouts of America

EAGLE SCOUT

- Planned and lead a service project with AIM, giving aid to rescued victims of sex trafficking in Cambodia
- Planned and lead groups of scouts in weekly meetings

Troop 794

Jan. 2011 - Dec. 2017