

Caleb G Rotello

STUDENT, COMPUTER SCIENCE

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Education

Colorado School of Mines

Golden, Colorado

B.S. IN COMPUTER SCIENCE

Aug. 2018 - Present

- Major GPA: 4.0, Overall GPA: 3.696
- Dean's List
- Transamerica C-MAPP Scholar

Technical Skills

Programming Languages C++, Python, Java, PostgreSQL

Development Tools Jupyter Notebooks, Valgrind

Coursework Algorithms, Programming Languages (current), Database Management, Advanced Software Engineering (current)

Elective Coursework Quantum Information (current), Compiler Design, Computer Simulations (current), Scientific Computing

Work Experience

Research & Development Software Intern

Boulder, Colorado

ARCHERDX

May 2020 - Jul. 2020

- Wrote and implemented novel algorithms to efficiently detect DNA sample errors
- Improved molecular barcode overinflation
- Contributed to AMP Chemistry analysis software for cancer genomics
- Refactored Python and C++ code
- Worked on an academic scrum team

Health & Wellness App Developer

Denver, Colorado

CONTRACTING WITH COUNTY POLICE DEPARTMENTS

Jun. 2019 - Dec. 2019

- 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

IT Intern

Highlands Ranch, Colorado

VALOR CHRISTIAN HIGH SCHOOL

Dec. 2017 - Dec. 2018

- Planned projects and supervised interns
- Administration of 640 Apple devices, from hardware maintenance to software deployment
- Directed setup and implementation of 150 Apple devices
- Network setup and maintenance with Aerohive wireless access points
- Resolved user and helpdesk tickets

Achievements

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

University of Colorado

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

Colorado School of Mines

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

Troop 794

Extracurricular Activities

Association for Computing Machinery

Colorado School of Mines

MEMBER

Aug. 2018 - Present

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

Boy Scouts of America

Troop 794

EAGLE SCOUT

Jan. 2011 - Dec. 2017

- 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