# Caleb G Rotello

STUDENT, COMPUTER SCIENCE

 caleb.rotello.dev   |    calebrotello   |    calebrotello

## 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

## Technical Skills

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|---|---|
| **Programming Languages** | C++, Python, Java, PostgreSQL |
| **Development Tools** | Jupyter Notebooks, Mathematica |
| **Coursework** | Algorithms, Programming Languages (current), Datababase 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