

# Andrew Darling

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## EDUCATION

**SCHOOL OF MINES**  
**BS IN COMPUTER SCIENCE**  
Aug 2018 - Dec 2021  
Golden, CO  
Jr/Sr GPA: 3.87 / 4.0  
Cum. GPA: 3.58 / 4.0

## COURSEWORK

Multivariate Analysis  
Applied Statistics  
Mathematical Statistics  
Machine Learning  
Algorithms  
Operating Systems  
Programming Languages  
Computer Organization  
Ethics

## INTERESTS

1. Modernizing high impact, legacy services
2. Proving code correctness
3. Making strong predictions with incomplete information

## PROJECTS

**silver-mind:**  
Deep learning chess AI  
**moving-pose:**  
Pose recognition AI  
**executioner:**  
Model-based testing framework  
**dr-nim:**  
Minecraft NIM game plugin

## SKILLS

### PROGRAMMING

Over 6000 lines:

Python • Java

Over 1000 lines:

Git • R • Bash •

C • C++ • C#

Familiar:

Dart/Flutter • MySQL • Rust •

Elixir • Assembly • GH Actions •

ΛT<sub>E</sub>X • Javascript • AWS • Docker

## EXPERIENCE

### TRIMBLE | CLOUD ARCHITECTURE INTERN

May 2021 - Aug 2021 | Westminster, CO

- Exposed to the architectural side of large-scale software development efforts
- Built out test-suite for a new Trimble Cloud product
- Navigated the test-suite handoff to the product's new, dedicated team

### TYLER TECHNOLOGIES | FULLSTACK DEVELOPMENT INTERN

May 2020 - Dec 2020 | Lakewood, CO

- Learned how to create new features within an extremely large code-base
- Improved developer efficiency by building out documentation for a frequently used, proprietary C# framework
- Enabled Google Analytics for a large web application and worked within a team to develop new features required by the business

### FIRSTBANK | JAVA DEVELOPMENT INTERN

May 2019 - Aug 2019 | Lakewood, CO

- Introduced to agile software development workflows (Scrum + Kanban)
- Created Behavior Driven Development (BDD) unit testing Java framework
- Presented the BDD framework to FirstBank's unit testing committee, Java development team, and FirstBank executives
- Tested, documented, and deployed the BDD framework to FirstBank's Common repository

### COALESCE DEVELOPMENT COMMUNITY | CONTRACTOR

May 2017 - Aug 2018 | Denver, CO

- Built Minecraft plugins for server owners using the Java Spigot API

## RESEARCH

### SENSE2SAFEGUARD | UNDERGRADUATE RESEARCHER

Aug 2020 - July 2021 | Golden, CO

Worked under **Dr. Judith Klein**, the director of BioScience and Engineering at Mines, to create **iCovid**, a tool which performs COVID-19 disease comorbidity analysis using data from the UK Biobank

## INVOLVEMENT

### CS@MINES | TEACHING ASSISTANT (MACHINE LEARNING)

Aug 2021 - Present | Golden, CO

- Modified activities to better present machine learning concepts

### DENVER SCHOOL OF SCIENCE AND TECHNOLOGY | TUTOR

Aug 2019 - April 2020 | Golden, CO

- Spent afternoons tutoring middle-schoolers at DSST in math and science

## AWARDS

2018-2020	Recipient	CS@MINES PATHS Scholarship
2020	2 <sup>nd</sup> /15	Algorithms Course's AlgoBowl
2019	2 <sup>nd</sup> /16	Tyler Tech Coding Competition
2019	22 <sup>nd</sup> /76	ICPC Rocky Mountain Regionals
2018	Varsity Letter	Arapahoe High School Cross Country