

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: 3.71 / 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 • Javascript
Over 2000 lines:
Git • Rust • Elixir • Assembly •
R • AWS • Docker • Bash •
C • C++ • C#

Familiar:

Dart/Flutter • MySQL •
GH Actions • L^AT_EX

EXPERIENCE

TRIMBLE | CLOUD ARCHITECTURE INTERN

May 2021 - Aug 2021 | Westminster, CO

- Exposed to the architectural side of large-scale development efforts
- Built out testing-suite for a new Trimble Cloud product
- Navigated handing-off my code to the new, dedicated development 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

- 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
- Negotiated pricing and requirements directly with customers

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

| | | |
|------|----------------------|-------------------------------|
| - | Recipient | CS@MINES PATHS Scholarship |
| 2020 | 3 rd /30 | Tyler Tech Coding Competition |
| 2019 | 22 nd /76 | ICPC Rocky Mountain Regionals |
| 2018 | Varsity Letter | Arapahoe HS Cross Country |