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 •
LaTeX • 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 testing-suite for a new Trimble Cloud product
- Navigated handing-off the test-suite 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	2nd/25	Algorithms Course's AlgoBowl
2019	3rd/16	Tyler Tech Coding Competition
2019	22nd/76	ICPC Rocky Mountain Regionals
2018	Varsity Letter	Arapahoe High School Cross Country