

CLAIRE KINTZLEY

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 17046 W 12th Avenue, Golden, CO

EDUCATION

Colorado School of Mines

Golden, CO

M.S. in Data Science | Expected May 2025

GPA 4.0/4.0

B.S. in Computer Science | Aug 2021 - May 2024

GPA 3.93/4.0

SKILLS

Programming

Python | R | Java | C++ | Kotlin

Libraries / Tools / Platforms

Tensorflow/Keras | Pandas | scikit-learn |
NumPy | LangChain | SpaCy | Git | Terraform
(IaC) | AWS | Streamlit | React | PostgreSQL |
Pinecone | Snowflake | Elasticsearch

Methodologies / Applications

Time Series Analysis | Classification |
Simulation | Agile Development | LLM
Integration | Spatial Analysis

RELEVANT COURSES

Algorithms
Data Structures (C++)
Advanced Machine Learning
Linear Optimization
Time Series Analysis
Linear Optimization
Spatial Statistics
Advanced Statistical Modeling
Computer Simulation
Introduction to Machine Learning
Database Management (PostgreSQL)
Introduction to Probability
Mathematical Statistics (R)
Statistical Modeling
Programming Languages (OCaml)
Operating Systems (C)

HONORS &

INVOLVEMENT

- Varsity Track and Field | 2021 - Present
- Association for Computing Machinery - Women
 - President | 2023 - 2024
 - Vice President | 2022 - 2023
 - Treasurer | 2024 - 2025
- Society of Women Engineers
- Gogo Business Aviation C-MAPP Scholar (2023)
 - Department scholarship awarded to top CS students

WORK EXPERIENCE

Credera

Technology Solutions Consultant Intern

Denver, CO | June – August 2024

Client: Leading Global Fast-Food Chain

- Automated AWS resource creation and tagging with Terraform, strengthening the Infrastructure as Code practices for the cloud data pipeline project
- Supported team on CI/CD pipeline work to resolve urgent production deployment complications
- Implemented AWS EventBridge rules and New Relic alerts in Terraform to enable active monitoring of system failures

Johns Hopkins University Applied Physics Laboratory

Data Scientist Intern in the Analytic Capabilities Group

Laurel, MD

June - August 2022, June - October 2023

- Integrated GPT-4, LangChain, and Python to automate the generation of military base preparation guides for natural disaster training simulations
- Leveraged GenAI to generate interactive dependency diagrams of military bases to model building damage effects for a natural disaster war-gaming simulation
- Implemented the Java Service Provider Interface and wrote data processors in Kotlin to develop a COVID-19 data plugin API for a time series rapid analytic visualization software
- Implemented classes, functions, and unit tests in Kotlin for a collection of time series mathematical operations within a data analytic visualization software
- Generated interactive visualizations from time series analytics using JavaFX and TornadoFX in Kotlin
- Optimized search box performance time for a document database by implementing Elasticsearch in place of MongoDB

Analytical Data Systems

Field Session Project Intern

Golden, CO | June – May 2023

- Leveraged React, Snowflake, Pinecone, SpaCy, Python, and JavaScript to develop a full-stack application for searching, tagging, and managing prompts and responses from large language model interactions

Colorado School of Mines, Computer Science Department

Teaching Assistant for Introduction to Python Programming

Golden, CO | August – December 2022

- Provided support to students by offering in-class assistance for assignments and conducting bi-weekly office hours to facilitate their understanding of programming concepts and completion of assignments

ACADEMIC PROJECTS

Forecasting Google Stock Prices with ARIMA, SimpleRNN, and LSTM Models

- Implemented and compared ARIMA, SimpleRNN, and LSTM models using Python (NumPy, pandas, scikit-learn, TensorFlow) to forecast Google's daily opening stock prices, evaluating performance with MAE, RMSE, and MAPE metrics

Baltimore Crime Spatial Analysis

- Developed a spatial statistical model in R using Poisson regression and Kriging to predict the distribution and severity of major crimes in Baltimore, identifying high-risk hotspots for targeted interventions

Clue Project

- Employed pair programming, test-driven development, and event-driven programming skills to design and implement a version of the Clue board game in Java