CLAIRE KINTZLEY

Golden, CO | 410-271-7532 | ckintzley@mines.edu | linkedin/claire-kintzley
Clearance: Secret

EDUCATION

Colorado School of Mines B.S. May 2024 | M.S May 2025 (expected)
Bachelor of Science in Computer Science *GPA: 3.92*
Master of Science in Data Science
Coursework: Algorithms, Data Structures (C++), Database Management (PostgreSql), Mathematical Statistics (R), Software Engineering (Java), Introduction to Data Science (Python), Linear Algebra, Discrete Math, Introduction to Probability, Introduction to Linux, Computer Organization

TECHNICAL SKILLS

Python, Java, Kotlin, Git, SQL, C++, Agile, Large Language Model Integration, Prompt Engineering, Langchain, Systems Engineering, Data Processing, Data Visualization, Time Series Forecasting

EXPERIENCE

Johns Hopkins Applied Physics Lab, Asymmetric Operations Sector
Technical Intern in the Analytic Capabilities Group *Laurel, MD*
June 2023 – Present
- 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
- Generated interactive dependency diagrams of military bases to model building damage effects for a natural disaster wargaming simulation
- Integrated GPT-4, Langchain, and Python to automate the generation of custom facilitator guides for military natural disaster wargame training simulations

May 2022 – August 2023
- Implemented functionality for numerous time series operations within a time series rapid 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 **May 2023 – June 2023**
Field Session Project Intern *Golden, CO*
- 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 with a group of three students

Colorado School of Mines, Computer Science Department **August 2022 - December 2022**
Teaching Assistant for Introduction to Python Programming *Golden, CO*
- 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

Clue Project **October – December 2022**
- Employed pair programming, test-driven development, and event-driven programming skills to design and implement a version of the Clue board game in Java

COVID Data Forecasting With Prophet **October – November 2022**
- Collaborated with a partner to implement a time series forecast in Python using Facebook's Prophet model using Pandas, Matplotlib, and Numpy
- Analyzed accuracy of prediction model over varying time spans and geographic locations using Scikit-learn tools

HONORS AND INVOLVEMENT

Gogo Business Aviation C-MAPP Scholar **Present**

Association for Computing Machinery - Women **August 2021 – Present**
President (Present), Colorado School of Mines
- Lead and plan weekly meetings, coordinate workshops and tech talks with guest companies, and collaborate with computer science department to build an inclusive community of women in computer science at the university

Varsity Track and Field **August 2021 – Present**
Colorado School of Mines
- RMAC Academic Honor Roll member

Society of Women Engineers **August 2021 – Present**
Colorado School of Mines