

Caden Baird

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EDUCATION

Software Engineering

Brigham Young University - Idaho

Sep 2022 – Dec 2025

Rexburg, ID

- Minor: Statistics
- Current GPA: 3.93 / 4.0

Associates of Arts

North Idaho College

Sep 2020 – May 2022

Coeur d' Alene, ID

- Dual Credit

Coursework: Data Structures and Algorithms, Programming with Classes, Machine Learning, Applied Linear Regression, Data Wrangling and Visualization, Software Testing

EXPERIENCE

Quality Assurance Intern

Vivacity Tech PBC

Apr 2025 – Aug 2025

Remote

- Tested the DREAM web application across 3 major releases, identifying and documenting defects that helped improve reliability and quality for a platform managing over two million devices
- Wrote and executed detailed manual test cases, including functional, regression, smoke/sanity, and exploratory tests to validate new features and catch critical issues before deployment
- Utilized Jira and an RTM plugin to manage test cases and defect linkage, and collaborated in Agile development processes, including daily remote standup meetings and cross-functional team coordination

PROJECTS

InsightReplay

Senior Project - Brigham Young University-Idaho

Apr 2025 – Present

Rexburg, ID

- Architected and built a full-stack stock analysis platform with React, Flask, and Google Firebase for authentication and storage enabling users to simulate investments and visualize historic market data
- Implemented autoplay and manual step-through controls that allow users to analyze and validate technical analysis strategies in a risk-free environment through placing simulated long and short orders
- Developed RESTful Flask endpoints that integrate with multiple third-party financial APIs to aggregate, normalize, and expose OHLC time-series price data and market news to the React frontend

XGBoost Candlestick Direction Classifier

Nov 2024 – Nov 2024

Rexburg, ID

Machine Learning – Personal Project

- Designed XGBoost classifier to predict whether daily candles closed up or down achieving 56% f1 score
- Performed end-to-end data preparation, including data collection, cleaning, wrangling, and visualization
- Addressed class imbalance of the target variable using techniques such as SMOTE, cross-validation, and hyperparameter tuning to improve generalization of new data

CERTIFICATIONS

- IBM Machine Learning Professional Certificate (Coursera, June 2025)
- Software Quality Assurance Certificate (Brigham Young University-Idaho, expected December 2025)
- Data Science Certificate (Brigham Young University-Idaho, expected December 2025)

Programming Languages: Python, SQL, R, JavaScript, C#, C++