

## EDUCATION

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**Colorado School of Mines**, Golden, CO

Expected Graduation 2027

- *BS Computer Science, With Emphasis in Robotics and Intelligent Systems*
- *GPA: 3.88*
- *Awards: Provost Award Recipient*
- *Relevant Coursework: Machine Learning, Software Engineering, Intro to Robotics, Data Structures, Algorithms*

**Vandegrift High School**, Austin, TX

2024

- *Awards: Distinguished With Honors*

## TECHNICAL SKILLS

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- *Computer Languages: Python, Java, JavaScript, C, C++, C#, SQL, HTML, CSS, XML*
- *Tools: Git, Jira, Bitbucket, Jenkins, Atlassian Suite, React*
- *Skills: Object Oriented Programming, Dynamic Programming, Data Structures, Algorithms, Machine Learning, Artificial Intelligence*

## SOFTWARE EXPERIENCE

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**Voyant, Software Engineering Intern**, Austin, TX

Summer 2025

- Implemented a new Monte Carlo algorithm using mean-reversion and volatility inertia for more accurate and robust predictions.
- Designed and implemented objective based investing algorithm for clients to efficiently plan investments for future goals. Utilized Modern Portfolio Theory, Stochastic methods, and Monte Carlo Simulations.
- Collaborated with software engineers in an Agile work environment with daily stand-ups for consistent feedback.
- Utilized version control systems like Jira and Bitbucket (Atlassian Suite), effectively managing changes over time allowing for seamless collaboration among team members.

## SOFT SKILLS EXPERIENCE

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**Mathnasium, Instructor**, Austin, TX

October 2023 - May 2024

- Worked with a wide range of students and subjects ranging from advanced calculus students to elementary.
- Tracked student progress, frequently checking in with struggling students and identifying root causes of problems.
- Boosted student performance by providing individualized support and targeted feedback.

## RELEVANT PROJECTS

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- **Voyant Mean Reversion + Volatility Inertia Monte Carlo**
  - Implemented using Java and XML
  - Allowed use of persisted data
  - Ensures Monte Carlo simulations abide by real-world market patterns
- **Voyant Objective Based Investment Calculator**
  - Implemented in Java
  - Utilized Monte Carlo and stochastic methods
- **Connect 4 Engine**
  - Implemented in C++
  - Uses tree node structure to search for future board states
  - Adjustable move depth, but is set to 9 due to system constraints
- **CSCI 470 LLM Project: Cooking App**
  - Utilizes ChatGPT OSS to make an external AI application
  - Generates recipes for you to cook based off leftover ingredients and budget