

# Aaron Trelstad

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## EDUCATION

**Iowa State University, College of Liberal Arts and Science**

**Expected Graduation: May 2027**

*Bachelor of Science in Computer Science*

*Bachelor of Science in Mathematics with Applications in Statistics*

## TECHNICAL SKILLS

Proficient: Python | Familiar: MySQL, HTML/CSS, JavaScript, C++

Frameworks/Tools: Flask, React, Tensorflow, Git

## RELEVANT COURSEWORK AND SKILLS

**Computer Science:** Data Structures

**Math:** Multivariable Calculus

**Statistics:** Introduction to Probability and Statistics

## PROJECTS AND EXPERIENCE

**Innovate 120** | UX/UI Design Internship

- Developed UX/UI for Fortune 500 companies (Google and John Deere)
- Used Agile to communicate with teams

**Statistical Arbitrage Trading Algorithm** | Independent Project

- Generates buy or sell signal based on the daily movement of GM and Ford stock prices
- Backtesting the method over 265 days returned 93.21% whereas Ford was -14.567% and GM was -15.84% during that time
- Actively trading with the fund for 14 days returned 3.51% whereas Ford was 2.36% and GM was 0.09%
- Used **Python** to create predictive models and do statistical analysis.

**Notes Website** | Independent Project

- Uses **Python**, **HTML**, and **Flask**
- Includes full Authorization allowing a new user to create an account and existing users to log in and logout
- Has **SQL** database that stores user data

**Personal Website** | Independent Project

- Uses **JavaScript** and **React.js**
- Responsive design
- Reactive Animations using **CSS** and **react-three-fiber**
- Deployed through Github Pages

**Freelance Software Developer** | Independent Project

- Created websites using React.js for local businesses
- Designed apps using React Native from local restaurants

**Markov Chains Monte Carlo Simulation on Google Stock** | Independent Project

- Used **Python** to make Monte Carlo Simulations
- Used Markov Chains to find the probability of future stock movements

**Fareway Grocery Clerk** | Part-Time Employment

- Stock shelves and collect inventory
- Communicated with customers