

Cheyenne Erickson

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EDUCATION

Virginia Tech, B.S Computational Modeling and Data Analytics

College of Science / Academy of Data Science

Blacksburg, VA

August 2023 - May 2027

- GPA: 3.48
- In-Major GPA: 3.66

WORK EXPERIENCE

Barista and Food & Beverage Expert

September 2022 - Present

- POS system experience, ability to multitask in fast-paced environment.
- Handled an average of **250-350 transactions** per shift, ensuring efficiency and customer satisfaction.
- Trained new employees in use of equipment and processes.

Gainesville VA

Target Co.

June 2020 - August 2022

Closing Shift Lead

Manassas, VA

- Trained and supervised **eight** employees, ensuring adherence to food and safety standards and company protocols.
- Monitored guest satisfaction and responded to customer needs.

Tropical Smoothie Cafe

COMMUNITY & PERSONAL PROJECTS

ASA Data Fest 2025 – Real Estate & Commercial Analysis

- Exploratory Data Analysis & Modeling
 - Applied **k-means clustering** on log-transformed lease square footage to classify businesses into small, medium, and large size categories.
 - Engineered a custom **Industry Health Score** to evaluate submarket performance relative to long-term averages and conducted **time-series analysis** to uncover post-COVID in leasing behavior business resilience.
 - Built a **correlation-based model** to identify high-growth sectors and submarkets using indicators like lease activity, industry size, and volatility.
- **Machine Learning** Implementation
 - Predicted future lease square footage by submarket, achieving $R^2 = 0.622$ over 100 simulations, with improved accuracy by filtering outliers and emphasizing small/medium business activity.

Personal Project Summer 2025 – Data Exploration and Analysis on Sleep and Health

- Explored data set from Kaggle.com on Sleep and Health using R script and answered research questions using data visualizations and statistics.
- Used python to create a Stress Predictor based on various factors related to stress and sleep.
- [Documented Project Journey: Rendered HTML](#)

Computational Modeling and Data Analytics Club @ Virginia Tech

Undergraduate Member

- Engage with Computational Modeling and Data Analytics community by attending workshops and meetings, further refining skills and exploring interests.

Piedmont Environmental Council

Volunteer

- Food collection at community farm

CO-ED Intramural Basketball Virginia Tech, 2025

Team Player

- Undefeated CMDA basketball team; demonstrated teamwork, hard work, strategy, and resilience under pressure

Skills: Project management; Data analysis; RStudio; Jupyter; Java; Python; Data Structures & Algorithms; Mathematics