

# Colby Eagan

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## EDUCATION

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### University of North Carolina at Chapel Hill

Chapel Hill, NC

*BS Computer Science, BS Statistics | 3.65 GPA*

May 2026

• Relevant Coursework: Data Structures and Algorithms (Java), Research in Computer Science (Python and Java), Discrete Math, Foundations of Programming (Java), Web Design, Linear Algebra

• Involvement: Biokind.org Data Analyst Team Lead, Product Management Club PM, Pearl Hacks Mentor

## SKILLS

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**Technical:** • Python • Java • APIs • HTML • CSS • JSON • CSV • Yaml • Correlation Statistics • ML

**Language:** • English (native) • Spanish (fluent)

## WORK EXPERIENCE

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### UNC School of Information and Library Science

Chapel Hill, NC

*Research Assistantship & Undergraduate Researcher*

Aug 2022 - Present

• Identified significant correlations between socio-financial trends, manufacturing consistent data collection techniques with greater than .8 linear regression R values and reversal pattern tendencies

• Collaborating with PhD team and Dr. Deen Freelon, working towards publishing quantitative social science findings in a peer-reviewed data-science journal, to receive recognition from leading scholars in the field

### SAS Institute

Cary, NC

*Software Developer Internship*

May 2023 - Aug 2023

• Engineered yaml files to execute multi-tenant cloud pipeline scripts, reducing testing down time by 80%

• Created CI/CD optimizers to run only required scripts on files by analyzing dependency architecture and eliminating all unnecessary hardware costs; reduced hardware costs of DevOps by 30%

• Reconfigured scripts to execute by regular expression conditionals, creating efficient multi-tenant use-cases

### Discovery Capital Management

Norwalk, CT

*Quantitative Developer Internship*

May 2022 - Aug 2022

• Lead research and development on the quant team to track market sentiment through automated data collection and natural language processing, resulting in the first active NLP tool in the team's portfolio

• Crafted an innovative automated market ideology tracker used in quantitative equity research tracker and led to a 90% reduction in workload for the team when compared to manual research and data cleaning

## PROJECTS

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### AFTSA (APIs For Time Series Analysis) - Python Package

*Personal Project – [pypi.org/project/AFTSA/](https://pypi.org/project/AFTSA/)*

• Created python package AFTSA to share tools for calling APIs in precise time intervals, in statistically consistent time series formalities, and with data structure storage for time series and regression analysis

• Successfully garnered over 1,000 downloads for my Python package, demonstrating its widespread adoption within the developer community

### Finance Paradigm Tracker

*Personal Project*

• Analyzed the fluctuation of key performance indicators by tracking volume and social impact of scam and low value finance promotions within social media; conducted conclusive regression and logarithmic tests to explain up to 80% of data variance through statistics

### North Carolina Science Olympiad Test Writer

*Personal Leadership Project*

• Won multiple state medals and was part of the regional championship winning team; invited to return as a test writer and event coordinator for the North Carolina Science Olympiad program STEM events