Colby Eagan

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colbyeagan.github.io

EDUCATION

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), Mentored Research in the Computer Science Department (Python and Java), Discrete Math, Foundations of Programming (C), Web Design, Linear Algebra.

SKILLS

Technical: • Python • Java • Yaml • SAS • API's • JSON • Bash Scripts • Bloomberg Terminal
Language: • Spanish (fluent)

WORK EXPERIENCE

SAS Institute   Cary, NC
Software Developer Internship   May 2023 - Present
• 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 percent
• Reconfigured solution scripts to execute by regular expression conditionals, creating efficient multi-tenant use-cases

UNC School of Information and Library Science   Chapel Hill, NC
Research Assistantship & Undergraduate Researcher   August 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

Discovery Capital Management   Norwalk, CT
Quantitative Developer Internship   May 2022 – Aug 2022
• Developed a program for the quant team to track market sentiment through automated data collection and natural language processing, resulting in the first quantitative sentiment tool in David Yang'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

AFTSA (APIs For Time Series Analysis) - Python Package
Passion Project
• 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.

UNC Computer Science Department and Hussman School of Journalism   Chapel Hill, NC
Independent Study   Jan 2023 - May 2023
• Analyzed the predictability of crypto prices and volume traded by back testing select automated data collection methods with conclusive regression and logarithmic tests to explain up to 80 percent of data variance through statistics; staff mentored by Dr. Deen Freelon

North Carolina Science Olympiad Test Writer   Multiple Locations, NC
NCSO   Nov 2018 - Sep 2019
• Won multiple state medals and was part of the regional champion winning team, invited to return as a test writer for the North Carolina Science Olympiad program STEM events