

Tyler Yandt

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EDUCATION

Davidson College

Davidson, North Carolina

Bachelor of Science, Computer Science, Minor in Data Science

Expected May 2024

- GPA: 3.82 (In Major Coursework)
- Relevant Coursework: Machine Learning (currently enrolled), Mathematical Modeling (currently enrolled), Database Systems, Advanced Baseball Analytics, Critical Web Design, Computer Organization, Programming Languages, Social Statistics, Data Structures, Linear Algebra, Data Science and Society, Discrete Structures, Programming and Problem Solving

Aquincum Institute of Technology

Budapest, Hungary

Equivalent Classwork toward Bachelor of Science, Computer Science

Fall Semester 2022

- Study Abroad Program in Budapest, Hungary
- Relevant Coursework: Graph Theory, Mobile Software Development, Algorithms and Data Structures

WORK EXPERIENCE

Community Research Fellowship

Davidson, North Carolina

Community Research Fellow

May – July 2023

- Responsibilities: Create an R Shiny application for a nonprofit organization based in Charlotte that analyzes school board representation in North Carolina public schools, and compile data to examine relationships between educational opportunities and educational achievement measures
- Skills Learned: R Shiny, R, cleaning large data sets, creating and managing a complex codebase from scratch

Davidson College Tutors

Davidson, North Carolina

Pre-Calculus Tutor

June – August 2023

- Responsibilities: Meet twice a week for two hours over six weeks, help reinforce knowledge and techniques learned from a packet of notes, review answers to homework problems and assist when necessary
- Achievements: Successfully tutored student over a six-week course to a B after failing the second test

National Renewable Energy Lab

Golden, Colorado

Science Undergraduate Laboratories Intern (SULI)

June – August 2022

- Responsibilities: Redesign my mentor's application's layout using CSS and JavaScript, unify JavaScript functions, create directives and pull essential functions from files to modularize the codebase, implement corresponding directives in the HTML templates
- Skills Learned: JavaScript, HTML, CSS, GitHub branches and PRs, AngularJS, navigating complex code bases

RELEVANT PROJECTS

Davidson College

Davidson, North Carolina

Baseball Field Measurement Model

September – December 2023

- Summary: The Baltimore Orioles needed a model with an input of a Google image of a baseball field and an output of the distance from home plate to the outfield wall at every whole angle from the left foul line to the right foul line; the left foul line is -45 degrees, centerfield is 0 degrees, and the right foul line is 45 degrees
- Skills Demonstrated: Image processing, Canny edge detection, Hough line and circle transformations, data post-processing, learning and implementing new Python libraries

College Football Full Stack Website

November – December 2023

- Summary: Create a full stack application for Davidson's Database Systems final project, download 500 MB of college football statistics from 2005 to 2013, create a normalized database schema, clean and import data into a MySQL database, create a server that interacts with the database, code a front-end query builder for users to investigate statistics
- Skills Demonstrated: MySQL, database management and design, data cleaning and importation, front-end development, dynamic query building

LEADERSHIP & INVOLVEMENT

Davidson College

Davidson, North Carolina

President and Captain of Men's Club Lacrosse

May 2023 - Present

- Duties: Plan the logistics of the season; plan and hold practices, ensure the club has the necessary budget from the college, attend the league conference in the fall, coordinate with other organizations regarding the Spring season

Club Lacrosse (Vice President and Travel Officer)

August 2021 – May 2023

- Duties: Assist the president in all responsibilities, responsible for travel planning and logistics for away competition including transportation, hotels, mileage reimbursement, work with the club sports office to ensure travel policies are met

TECHNICAL SKILLS

- Advanced: R, R Shiny, Java
- Proficient: MySQL, database design, Python, front-end development (HTML, JS, and CSS), C
- Competent: Stata, Dr. Racket, Prolog