

Luke Lambert

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Education

The University of Tulsa | Tulsa, Ok

August 2021 – Present

Master of Science in Computer Science, GPA 4.0

Expected Graduation: May 2026

Bachelor of Science in Computer Science, GPA 3.96

December 2024

Bachelor of Science in Mathematics, GPA 4.0

December 2024

Experience

Capital One | McLean, Va

June 2024 – August 2024

Software Engineering Internship

- Developing generative AI solutions to efficiently process and interpret dispersed data sets using Python, Chroma, NumPy, Pandas, Jupyter notebooks, Matplotlib, Langchain, and Gradio.
- Implementing Retrieval-Augmented Generation (RAG) with vector databases to supply the generative AI model with critical information, enhancing response accuracy and relevance.

USAA | Plano, Tx

May 2023 – August 2023

Software Engineering Internship

- Developed a status dashboard web application using React.js to monitor and visualize database inconsistencies
- Built and integrated Java Spring Boot APIs to enable real-time data updates.
- Collaborated with the development team to enhance user interface and optimize API performance

Projects

Flick Finder

[YouTube Demo](#)

[GitHub](#)

- Flick Finder is a movie recommendation web app leveraging statistical learning to give movie recommendations based on movies the user likes
- Developed with a Python backend using Pandas and Flask, and a user-friendly frontend built with React.ts and Bootstrap for a seamless and responsive user experience.

Track Calculator

[trackcalculator.run](#)

[GitHub](#)

- The Track Calculator Web App is a dedicated calculator application for track and field enthusiasts, enabling users to perform a wide range of calculations and conversions pertaining to track and field events
- Built a full-stack track calculator project, leveraging a Java Spring Boot backend and a user-friendly React.js web app frontend with Bootstrap for a responsive and visually appealing design

NCAA Cross Country Data Analysis

[GitHub](#)

- Scraped, cleaned, and analyzed NCAA Cross Country data from 2018 to 2022, performing various statistical analyses and regressions on the data.
- Utilized Python, Pandas, Matplotlib, Scikit-learn, and Beautiful Soup to efficiently process and visualize the data.

Other Project Links:

<https://youtu.be/dTMFMGquoh4>, <https://lukelambert11.github.io/MathTimeline/>, lukelambert11.com

Skills

Programming: Python, Java, Swift, Javascript, HTML, CSS, C++, SQL

Libraries/Tools: Pandas, Flask, Spring, React, Bootstrap, SwiftUI, Git, Postman, JetBrains, GitHub, GitLab

Relevant Coursework

Algorithms, Data Structures, Software Engineering, Analysis of Algorithms, Computer Networks, Database Systems, Digital Design, Computer Graphics, Discrete Mathematics, Linear Algebra, Operating Systems, Cyber Security, Numerical Methods, Senior Software Project, Information System Assurance, Calculus 1-3, Differential Equations, Statistics, Modern Algebra

Involvement

NCAA Division 1 Cross Country and Track Athlete

August 2021 – Present

- *American Athletic Conference Men's Cross Country Freshman of the Year*
- *Cross Country National Championship Competitor*
- *American Athletic Conference Men's 10,000 Meters, 4th Place*

Tau Beta Pi (2022-Present)

Tandy School of Computer Science Grader