

Colin Bertrand

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EDUCATION

University of Illinois Urbana-Champaign, Champaign, IL

August 2022 – May 2026

BS in Data Science + Information Science, Minor in Computer Science

Dean's List – 3.65 GPA

Relevant Coursework: Modeling & Learning in Data Science, Programming for Info Problems, Linear Algebra in Data Science, Algorithms and Data Structures for Data Science, Concepts of Machine Learning, Human Computer Interaction

EXPERIENCE

Generative AI Architect Intern, *Tata Consultancy Services*, Naperville, IL

June 2025 – August 2025

- Built AI Agents which automated the process of Quality Engineering
- Collaborated with a team to build a User Interface with HTML and Flask for interacting with the AI Agent
- Used REST API to connect to Azure DevOps and get/post important data
- Utilized Prompt Engineering to format desired output of AI Agent

Data Science Intern, *Illini Dads Association*, Champaign, IL

August 2024 – Present

- Provide data analytics and insights for the Illini Dads Association
- Generate reports using Python for ticket/merch sales with interactive dashboard

Students Pushing Innovation Intern, *National Center for Supercomputing Applications*, Champaign, IL

June 2024 – July 2024

- Researched the process of Exploratory Data Analysis (EDA)
- Worked with mentor discussing differences between genres of datasets and what analysis works best for them
- Created a Python tool which automated the process of EDA for clients and generated custom dataset reports
- Supplied Stanford Endocrinologists with reports on three Diabetes-related datasets for future analysis

PROJECTS

Illini Men's Basketball Interactive Database, *Python, Streamlit, Beautiful Soup*

- Utilized web-scraping techniques to access NCAA Men's Basketball statistics
- Cleaned and transformed data to reflect UIUC players/teams

Sea Turtle Tracker, *Python, Streamlit, Pandas*

- Transformed Geospatial data to reflect the travel of 17 different Sea Turtles
- Displayed in interactive world map created in Python

Type 2 Diabetes Predictive Model, *Python, Machine Learning*

- Created a machine learning model to classify patients based on their risk of Type 2 Diabetes Diagnosis

SERVICE & VOLUNTEERING

Section Leader, *Marching Illini*, Champaign, IL

May 2022 - Present

- Tenor Drum Section Leader of the Marching Illini Drumline dedicating 18-20 weekly hours
- Leading rehearsal for Illini Drumline members
- Communicating with directors on behalf of Drumline Section

Juvenile Diabetes Research Foundation, *Volunteer, Lobbyist*

- Attended multiple charity events and fundraisers and assisted in raising \$15M+ for research
- Lobbied U.S. Congress to renew annual diabetes research bill

SKILLS & EXTRACURRICULARS

- *Skills*: Python, Pandas, AI Agents, Generative AI, Machine Learning, Streamlit, SQL, GitHub, Prompt Engineering, REST API
- *Interests*: 10+ Years of Percussion, Graphic Design, Social Media Manager, Music Composer, 3D Printing