

PROFESSIONAL SUMMARY

Technology professional with strong analytical and problem-solving skills currently working in the software industry. Seeking to leverage data analysis and on-field expertise to support an MLB organization, combining real-world tech experience with a lifelong passion for baseball and player development.

EDUCATION

BS Computer Science, April 2022
Ohio University, Athens OH
School of Electrical Engineering and Computer Science
GPA: 4.0, Summa Cum Laude

Honors Diploma: June 2019
Lancaster High School, Lancaster OH
Overall GPA (5.0 scale): 4.8
Class Rank: 1 (out of 446)

PROFESSIONAL WORK EXPERIENCE

Software Site Reliability Engineer: May 2021 – Present (internship to full-time position)

Highmark Health Observability Engineering Department, Pittsburgh PA

Design and deploy scalable software solutions, improving system reliability, efficiency, and performance for enterprise level applications. Automate monitoring and data pipelines to reduce system downtime.

Student Software Engineer: Aug 2020 – May 2021 (10 hours per week)

Ohio University Information Technology Department, Athens OH

Worked on real-world web application projects in use by the university

Independent Software Consultant: May 2020 – January 2021 (varying hours)

Software advisor to Dr. Lawrence Robert Gore, Ohio University

Developed and tested code used in research for dissertation for The Ohio State University

BASEBALL EXPERIENCE

Strike Zone: Indoor baseball training facility operated by former New York Yankees / Boston Red Sox shortstop Carlos Rodriguez. Instructed athletes on hitting mechanics, pitching techniques, and defense.

Ohio University (NCBA): Played for the Bobcats in 2021-22, starting at CF, SS, and P; contributed to team strategy and performance. Participated in off-field player development and scouting prep.

Lancaster High School (Ohio): Voted on the leadership team 2017-19. In 2019, played 3B, P, and DH for the 3rd ranked team in the state and earned OCC-Ohio Scholar Athlete award.

TECHNICAL SKILLS

- Experience with coding in C/C++, Python, R, Java, Rust, Angular, JavaScript, and HTML / CSS
 - Expertise in database systems and SQL - designing, modifying, querying, and maintaining
 - Familiarity with baseball technologies such as Hawk-Eye, Trackman, Rapsodo, and Kinatrax
 - Proficient in machine learning approaches such as Unsupervised Learning and K-Means Clustering
 - Skilled in data visualization techniques with tools such as Matplotlib, Tableau, and Power BI
 - Knowledge of Dynatrace, Splunk, Docker, Kubernetes, and Git
 - Familiar with distributed/parallel computing, OpenGL, and assembly programming
 - Extensive knowledge of binary trees, sorting/graph algorithms, and polymorphism
 - Experience with using the operating systems: Linux, Windows, MacOS, and Unix
 - Mastery of Microsoft 365 (Word, PowerPoint, Excel, etc.)
-

PROJECTS

Major League Baseball Statistical Database Program

- Intended to be used by an MLB organization's front office / data science team
- An application for which a user can view all 2021 player statistics, highlight videos, profile pages, etc.
- Created using SQLite3, Python, and Tkinter
- <https://github.com/MathewLang22/baseball2021>

Software Development: An Overview of the CS Major at Ohio University

- Senior Design and Development project
- Created a website using JupyterLab to showcase OU's computer science curriculum
- Each page contains self-contained, runnable example code in Python, C++, Java, and more
- <https://github.com/MathewLang22/OHIOCSOverview>