

# Georg Matthew Lang

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## 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.

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## 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)

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## 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

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## 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.

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## 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.)
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## 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/MatthewLang22/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/MatthewLang22/OHIOCSOverview>