

Georg Matthew Lang

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Portfolio: <https://gmlang.com> | GitHub: <https://github.com/MatthewLang22>

PROFESSIONAL SUMMARY

Technology professional with a strong analytical background, currently working in the software industry. Seeking to apply data-driven thinking and on-field baseball expertise to support an MLB organization in analyst or baseball strategy roles, bridging real-world technical experience with player evaluation and game strategy.

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

Ohio University (NCBA): Played for the Bobcats in 2021-22, starting at CF, SS, and P

Contributed to team strategy and participated in off-field player development and scouting prep

Strike Zone: Indoor baseball training facility operated by former NYY / BOS shortstop Carlos Rodriguez

Instructed athletes on hitting mechanics, pitching techniques, and defensive fundamentals

Lancaster High School (OH): Played for the Gales (3rd ranked team in the state) at 3B, P, and DH

Voted on the leadership team from 2017-19 and earned OCC-Ohio Scholar Athlete award in 2019

PROJECTS

Coding / Technical Work (<https://github.com/MatthewLang22>)

- Used Python to analyze hitter/pitcher data, evaluate and visualize run creation trends, and develop a PA plan
- Wrote a regex-based parser in R to extract and store data from multiple BATS! PDF game logs into CSV files
- Built an app using SQLite3, Python, and Tkinter to explore 2021 MLB player statistics and highlight videos
- OU Senior Capstone: Developed a website in JupyterLab to showcase OU's computer science curriculum

Baseball Strategy / Analytical Work (<https://gmlang.com>)

- Analyzed substitution, tactical, and matchup decisions across two half-innings from MLB games
 - Evaluated Zac Gallen's career pitching stats and provided recommendations for improvement entering 2026
 - Produced a sample hitting report for a right-handed hitter facing reliever Tanner Scott
 - Designed a resource to assist MLB coaching staffs with ABS challenge strategy for the 2026 season
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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
- Exposure to baseball datasets using the Python libraries Pandas, PyBaseball, and NumPy
- Familiarity with baseball technologies such as Hawk-Eye, Trackman, Rapsodo, and Kinatrax
- Skilled in data visualization techniques with tools such as Matplotlib, Seaborn, and Tableau
- Proficient in machine learning approaches such as Unsupervised Learning and K-Means Clustering
- Knowledge of Dynatrace, Splunk, Grafana, Docker, Kubernetes, and Git
- 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.)