

# Gia Blum

Email: [gblum01@louisville.edu](mailto:gblum01@louisville.edu)

Mobile: 502-714-9555

- Relocating to San Francisco, CA / Bay Area in August, 2023 -

## Data Analyst | Candidate for M.S. Computer Science (May 2025)

Proactive analyst with strong passion for achieving data integrity by applying sound data-analysis techniques is seeking analytical role to utilize skills in Python, SQL, C++, R, and project management.

## Education

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**University of Louisville**, Louisville, KY

**B.A., Concentrations in Computer Science and Biology**

**May 2023**

- Graduated magna cum laude (3.80)
- Relevant Courses: Data Analytics Programming, Data Structures and Operating Systems, Discrete Structures, Intro to C/C++, Foundations of Computer Science

**Speed School of Engineering, University of Louisville**, Online Program

**M.A., Computer Science**

**Aug 2023–May 2025**

## Technical Skills

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**Languages** C, C++, Python (proficient); HTML, CSS, R, SQL (basic)

**Tools** Excel, Tableau, Matplotlib, Seaborn, Pandas, NumPy, Jupyter, GitHub, Git, AWS

## Work Experience

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**Software Engineering Tutor | Freelance**

**Sept 2020–Jan 2023**

Assisted 3 students with fundamentals of C, C++, and Python programming.

- All students earned higher grades as result of tutoring and exam-preparation assistance.

**Duty Manager, Information Center | University of Louisville**

**Jan 2020–Jan 2022**

Hired to answer visitors' questions and conduct campus tours.

- Trusted with training 12 newly-hired students on operation, including conducting tours, working with groups of diverse, mixed-age people, and providing facts to market the university.
- Eased new students' transition to the university by offering information, advice, and counsel.

**Patient Care Assistant | Jewish Hospital**, Louisville, KY

**Sept 2021–Dec 2022**

Provided compassionate care and assistance with daily living activities to patients, and maintained detailed medical records using Cerner electronic medical records (EMR) system.

**Medical Scribe, Emergency Room | Norton Hospital**, Louisville, KY

**Jan 2020–Jun 2021**

Completed medical charting for assigned ER physician throughout shift. Analyzed medical history and charted information relevant to ER visit into EPIC EMR system.

## Technical Projects

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### Query Autocomplete Program

Implemented trie data structure to efficiently insert, search, and autocomplete words in a dictionary. Uses edit distance algorithm to provide recommendations for similar words if search term is not found.

- [https://github.com/gianicoleb/Query\\_AutoComplete](https://github.com/gianicoleb/Query_AutoComplete)

### Louisville Restaurant Review Analysis

Created Python program that performs data analysis and comparisons of restaurant reviews for all food services in Louisville, KY.

- <https://github.com/gianicoleb/LouisvilleRestaurants>

## Additional Technical Training

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Python, C++, R, SQL | Codecademy

2/23-4/23

CS 50 (online course) | Harvard University

1/23-3/23

Data Analytics: Foundations of Data Science, Using Pandas | Kaggle

5/23