

Michael Morrow, Ph.D.

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Objective

To obtain a position utilizing algorithm design, software development, scientific research, and Ph.D. background.

Qualifications Summary

- Skilled with Python, SQL, algorithm design and automation
- Contributed to open-source and proprietary software
- Conducted, presented, and submitted original mathematical research
- Demonstrated collaborative leadership, communication, and organization skills

Education

University of Kentucky, Kentucky, USA May 2024
Ph.D. Mathematics

University of Kentucky, Kentucky, USA April 2021
M.S. Mathematics

Central Washington University, Washington, USA June 2019
B.S. Mathematics

Related Experience

Graduate Researcher, University of Kentucky, Lexington, KY August 2019 - May 2024

- Conducted mathematical research and submitted academic papers to journals
- Invited to speak at several high-profile conferences
- Utilized Macaulay2, Python and Git to implement and maintain algorithms
- Contributed to the open-source mathematical software system Macaulay2

Software Developer, Minisoft, Snohomish, WA June 2013 - August 2013

- Paid internship
- Contributed to a terminal emulator app for iOS
- Implemented key features of legacy terminals using ObjectiveC

Other Experience

Graduate Teaching Assistant, University of Kentucky, Lexington, KY August 2019 - May 2024

- Designed and taught mathematics courses at the undergraduate level
- Coordinated a team of peers as Lead TA to more efficiently teach Business Calculus
- Collaborated with colleagues and professors to optimize course logistics
- Experience teaching courses ranging from College Algebra to Multivariate Calculus and Matrix Algebra

Related Computer Skills

Python, SQL, Bash, Git, Macaulay2, JavaScript, \LaTeX , Java, C/C++, ObjectiveC

Software

Nametags, a Discord bot written in Python for managing user introductions.
Available at github.com/morrowmh/Nametags.

OIGroebnerBases.m2, a Macaulay2 package. Available at github.com/morrowmh/OIGroebnerBases.
Also available as part of the official [Macaulay2](#) release as of version [1.23](#).