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, and algorithm development
- 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.