

Michael Morrow, Ph.D.

Citizenship: USA

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Objective

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

Qualifications Summary

- Designed, implemented, and tested algorithms
- 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 Ph.D. Mathematics Advisor: Uwe Nagel	May 2024
University of Kentucky , Kentucky, USA M.S. Mathematics	April 2021
Central Washington University , Washington, USA B.S. Mathematics	June 2019

Related Experience

Graduate Researcher, University of Kentucky , Lexington, KY <ul style="list-style-type: none">• Conducted mathematical research and submitted academic papers to journals• Invited to speak at several high-profile conferences• Designed and proved correctness and termination of algorithms• Utilized Macaulay2 and Git to implement and maintain algorithms• Contributed to the open-source mathematical software system Macaulay2• Organized the University of Kentucky Algebra Seminar	August 2019 - May 2024
Software Developer, Minisoft , Snohomish, WA <ul style="list-style-type: none">• Paid internship• Contributed to a terminal emulator app for iOS• Implemented key features of legacy terminals using ObjectiveC	June 2013 - August 2013

Other Experience

Graduate Teaching Assistant, University of Kentucky , Lexington, KY <ul style="list-style-type: none">• 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	August 2019 - May 2024
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Related Computer Skills

Python, SQL, Bash, Git, Macaulay2, JavaScript, L^AT_EX, Java, C/C++, ObjectiveC

Software

OIGroebnerBases.m2, a Macaulay2 package, 2023. Available at [github.com/morrowmh/OIGroebnerBases](#). Also available as part of the official [Macaulay2](#) release as of version [1.23](#).

FIResolutions.m2, a Macaulay2 package, in preparation. See [github.com/morrowmh/FIResolutions](#).