ETHAN MCCARTHY

@ ethmcc.github.io

in in/ethmcc

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EMPLOYMENT

Product Engineer

Bill360

iii 2022 - current

Tampa, Florida

Leading development on small, cross-functional teams at a green tech startup in the FinTech sector.



Software Developer

▶ Two Fish Creative

iii 2021 - 2022

West Palm Beach, Florida

Built full-stack enterprise web applications for clients managing hundreds of millions of dollars in accounts. Worked intensely in an Agile development environment as team lead on a green-tech software project. Mentored and led other developers. Interacted directly with clients to understand needs and deliver on business goals.



Software Engineer

ര്ം Skillion Inc.

iii 2020 - 2021

Bethlehem, Pennsylvania

Developed full-stack Android applications and web apps for an e-bike platform. Led development of "Tours" project.



Visiting Assistant Professor

University of Florida

1 2018 - 2020

Gainesville, Florida

Published original research in computer science and symbolic logic. Led research seminars and conferences. Developed online courses utilizing multimedia lectures, interactive software teaching tools, and digital textbooks.

□ PERSONAL PROJECTS

I enjoy working on side-projects. You can find write-ups on my programming blog: https://ethmcc.github.io/projects/. These include:

- A native Android Application written in Java
- A hardware pomodoro timer built on the Arduino platform with C++
- A progressive web application built with React for math/CS education
- A Python library for efficiently solving combinatorial problems

EDUCATION

Ph.D. Mathematics

UW-Madison

i 2018

Madison, Wisconsin

Computer science, computability and complexity, algorithmic information theory (Ph.D. 2018, M.A. 2014)

</> **INCOME.**



☆ OTHER EXPERIENCE

- Art of Problem Solving. Teaching coding to talented high school students.
 - Intro to Programming with Python
 - Intermediate Programming with Python

SELECTED PUBLICATIONS

- Pointwise complexity of the derivative of a computable function. Arch. Math. Log. (2021). DOI: f7ms
- Cototal enumeration degrees and their applications to effective mathematics. Proc. Am. Math. Soc. 146 (2018). DOI: f7mt

T SELECTED AWARDS

- Graduate Research Fellowship, NSF, 2014
- Herbert T. Graham Scholar, 2011 & 2012
- Math in Moscow Scholarship, AMS, 2012
- Herzog Competition, 1st Prize, 2011

INTERESTS

- **\$ Sailing Instructor** at collegiate sailing club.
- **Freediving** enthusiast.
- Representation Provided Provid