ETHAN MCCARTHY

@ ethmcc.github.io

in in/ethmcc

n ethmcc



Lead Software Engineer

Bill360

iii 2022 - current

Tampa, Florida

Led the design, architecture, development and maintenance of large, scalable software systems providing payments services.



Senior Software Developer

➤ Two Fish Creative

ii 2021 - 2022

West Palm Beach, Florida

Team lead on development of a large, full-stack, enterprise operational web platform in the medical billing space.



Software Engineer

റ്റ് Skillion Inc.

iii 2020 - 2021

Bethlehem, Pennsylvania

Led development of a mobile software product for an e-bike platform. Developed full-stack web and Android applications for an e-bike platform.



Visiting Assistant Professor

University of Florida

iii 2018 - 2020

Gainesville, Florida

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

TypeScript JavaScript Node.js MATLAB

□ PERSONAL PROJECTS

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

- Open-source contribution to an AAC assistive device
- Progressive web application built with React for math/CS education
- Python library for efficiently solving combinatorial problems
- Native Android Application written in Java
- Hardware pomodoro timer built on the Arduino platform with C++

EDUCATION

Ph.D. Mathematics

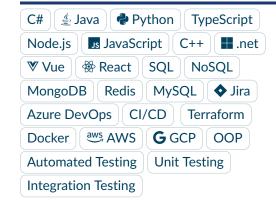
UW-Madison

iii 2018

Madison, Wisconsin

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

</> **INCOME.**



☆OTHER HIGHLIGHTS

- Taught Python-based programming courses at Art of Problem Solving to talented high school students. (2014-2018)
- Awarded NSF Graduate Research Fellowship, 2014.

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

INTERESTS

Collegiate Sailing Instructor.

Snorkeling enthusiast.

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