

about

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languages

english basic spanish

programming

haskell technical writing idris python go

interests

functional programming, type theory, mathematics, information security, category theory, formal verification, technical writing, category theory, programming language theory, cryptography, vim

education

2012–2015 Illinois State University Part-Time Student

Mathematics through Complex Analysis

Computer Science independent study and research

2010–2015 Bloomington Central Catholic High School Full-Time Student

Focus on mathematics and the sciences

2014 Stanford University Online Student via Coursera

Cryptography from Dan Boneh

experience

2014 Ingersoll Scout Reservation STEM Director

Managed a staff of two and a building, taught more than 1,000 children.

2013-2014 The Katie School of Insurance and Risk Management Researcher

Focused on machine learning and security in unmanned aerial systems, es-

peciatlly with regard to integration with businesses.

2013-2014 ISUSEC Vice President

Taught students security concepts and practice, promoted meetings and events, and built capture the flag competitions

projects

2014 TARTS github.com/japesinator/tarts

Formally verified cryptosystems' resistance to timing attacks with the Curry-

Howard isomorphism

Applied to present at THOTCON 2015.

2014 Fire* github.com/mempko/firestr

Wrote documentation for a distributed system for computation and communi-

cation and then set up readthedocs for easy access and versioning.

2014 The Idris Language github.com/idris-lang/Idris-dev

Wrote part of the standard vector library, formally verified functors, applica-

tives, and monads, and part of the standard stream library