JPSmith
Student, Hacker, Adventurer

about
17 Payne Place
Normal, Il. 61761
United States

jp@writes.co.de
writes.co.de
github.com/japesinator

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	**Part-Time Student**	Illinois State University

Mathematics through Complex Analysis
Computer Science independent study and research

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

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, especiatlly 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 communication 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, applicatives, and monads, and part of the standard stream library