

JPSmith

Student, Hacker, Adventurer

about

17 Payne Place
Normal, IL 61761
United States

309-212-5679

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 |
| | <i>Managed a staff of two and a building, taught more than 1,000 children.</i> | |
| 2013-2014 | The Katie School of Insurance and Risk Management | Researcher |
| | <i>Focused on machine learning and security in unmanned aerial systems, especially with regard to integration with businesses.</i> | |
| 2013-2014 | ISUSEC | Vice President |
| | <i>Taught students security concepts and practice, promoted meetings and events, and built capture the flag competitions</i> | |

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 | |