

JPSmith

Student, Hacker, Adventurer

about

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United States

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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

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|-----------|---|-----------------------------|
| 2012–2015 | Illinois State University
Mathematics through Complex Analysis
Computer Science independent study and research | Part-Time Student |
| 2010–2015 | Bloomington Central Catholic High School
Focus on mathematics and the sciences | Full-Time Student |
| 2014 | Stanford University
Cryptography from Dan Boneh | Online Student via Coursera |

experience

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

projects

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|------|---|---|
| 2014 | TARTS
Formally verified cryptosystems' resistance to timing attacks with the Curry-Howard isomorphism
Accepted for presentation at THOTCON 2015. | github.com/japesinator/tarts |
| 2014 | Fire*
Wrote documentation for a distributed system for computation and communication and then set up readthedocs for easy access and versioning. | github.com/mempko/firestr |
| 2014 | The Idris Language
Wrote part of the standard vector library, formally verified functors, applicatives, and monads, and part of the standard stream library | github.com/idris-lang/Idris-dev |