

JPSmith

about

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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 | 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 |
| | Took Cryptography from Dan Boneh, Machine Learning from Andrew Ng | |

experience

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|-----------|---|---------------------------------|
| 2014 | Ingersoll Scout Reservation | STEM Program Founder & Director |
| | Created a new program for STEM education, managed a staff of two and a building, and 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, especially with regard to integration with businesses, attended ICUAS 2014, presented work to the ISU College of Business Board of Directors and COBAN. | |
| 2013-2014 | ISUSEC | Vice President |
| | Taught students security concepts and practice, promoted meetings and events, and built capture the flag competitions. Educated hundreds of students about the OWASP Top 10, reverse engineering, cryptography, and other security fundamentals | |

projects

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|------|---|---------------------------------|
| 2014 | TARTS | github.com/japesinator/tarts |
| | Formally verified cryptosystems' resistance to timing attacks with the Curry-Howard isomorphism
Accepted for presentation 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 | |