# JPSmith
Student, Hacker, Adventurer

## 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

| 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 | |