

JPSmith

About

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github.com/japesinator

Languages

english
basic spanish

Programming

haskell
technical writing
git
idris
python
go

Education

- 2015–2019 **University of Illinois at Urbana-Champaign** Full-time student
Majoring in Physics
- 2012–2015 **Illinois State University** Part-Time Student while in high school
Mathematics through Complex Analysis
Computer Science independent study and research
- 2014 **Stanford University** Online Student via Coursera
Took Cryptography from Dan Boneh, Machine Learning from Andrew Ng

Experience

- 2015-Present **Motorola Solutions** Information Security Intern
Built and deployed an internal solution to track user "security hygiene" and report on it. Used Git, Splunk, Haskell, Python, and machine learning. Also worked briefly with pentest team to assess the security of internal resources.
- 2015-Present **SigPWNy** Board Member
Led and planned educational meetings on security, planned and promoted special events and trainings, and ran both the internal CTF and UIUCTF. Educated students about web security and reverse engineering and worked with companies to hold tech talks and recruiting events. Worked with CTF team to qualify for CSAW CTF finals.
- 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 **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. Worked with CTF team to place first at THOTCON and Circle City Con CTFs in 2015.

Projects

- 2014-Present **TARTS** github.com/japesinator/tarts
Formally verified cryptosystems' resistance to timing attacks with the Curry-Howard isomorphism
Presented at THOTCON 2015, accepted for presentation at CypherCon 2016.
- 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-Present **The Idris Language** github.com/idris-lang/Idris-dev
Wrote part of the compiler, standard vector library, formally verified functors, applicatives, and monads, and part of the standard stream library