

# David H. Lanner, Jr.

Passionately promoting security in depth

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## Technical Skills

**Main programming languages:** Ruby, JavaScript, Java

**Other programming languages:** Haskell, Racket, Python, C, x86 Assembly, Rust

**Methodologies:** Agile, TDD

**Revision Control:** Git, Subversion

**DevOps:** Chef, Vagrant, Jenkins, Travis, Hubot

**Cloud:** Amazon Web Services, Heroku, DigitalOcean

**Databases:** MySQL, PostgreSQL, Riak (NoSQL)

**Information Security:** Kali Linux, Metasploit, Nmap, web app security, Burp Suite, cryptography

## Personal Projects

- Crumbl: command line tool for reading and writing encrypted or encoded Rails cookies
- Byzantine Generals: distributed, actor-based, fault-tolerant system in Ruby
- Cryptographic and cryptanalytic algorithms implemented in Ruby and Haskell
- Checkers game and checkers-playing artificial intelligence in Scheme/Racket

## Experience

- **Premiere Global Services, Inc.**, Atlanta, GA, 2012-present
  - **Software Engineer in Test**, 2014-present
    - Architected, developed, secured, designed UI, deployed, maintained, and administered a highly scalable, cloud-based load-testing application and its infrastructure
    - Worked with auditors to develop fixes for security vulnerabilities
    - Enabled insight into code durability and confidence in system reliability by building automated testing, test failure notification, and code and test analytics into the continuous integration Jenkins server
    - Automated integration and unit tests for Ruby, Java, and ActionScript applications
  - **Software Engineer**, 2012-2014
    - Developed complex Ruby on Rails and Java applications for a high-capacity, Cloud-based webcasting service
    - Developed software infrastructure with Chef and Berkshelf
    - Developed and managed 6 developers' Vagrant environments
    - Discovered, exploited, mitigated, and disclosed code and infrastructure

vulnerabilities in penetration tests, such as cross-site scripting and cross site request forgery

- Hardened the web application against many different kinds of attacks, for instance by developing and deploying a Content Security Policy to help prevent cross-site scripting.
  - Updated vulnerable software soon after initial disclosure
  - Fixed cryptography implementation bugs
  - Wrote and automated hundreds of integration and unit tests
- **Student Technology Assistant, The University of the South, Sewanee, TN**  
2009-2012
    - Analyzed, researched, resolved, and advised on students' computer problems
  - **Observatory Assistant, Cordell-Lorenz Observatory, Sewanee, TN** 2008-2012
    - Performed maintenance on computers, telescopes, and auxiliary devices
  - **Administrative Assistant, Centers for Disease Control & Prevention, Atlanta, GA**  
Summers '09,'10
    - Automated data retrieval and processing tasks with Visual Basic for Applications
  - **Computer Consultant and Repairman, ShopTechDirect, Decatur, GA** Summer 2008
    - Performed system back-up, recovery, anti-malware, and networking solutions

## **Education**

**Sewanee: The University of the South, Sewanee, TN**

Bachelor of Science in Computer Science May 2012

**Interests:** Functional programming, security (information security, social engineering, physical security), DevOps, distributed systems, DIY / maker culture, science fiction, fitness, coffee, contributing to open source software, engaging in online tech communities to gain and share knowledge