

# Alexander Scheel

Alexander Maurice Scheel  
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## [Overview]

- Thinker, [hacker »](#), and cryptographer.
- Penetration testing and application development.
- Dedicated violinist with 13 years of chamber, orchestral, and solo music experience.
- Friendly, energetic, and easy with which to work.

## [Experience]

### [ISEAGE »](#) October 2016 – present

ISEAGE is a security research lab at ISU which runs five Cyber Defense Competitions a year. Work developing scenario base VM images, exploitable backdoors, and competition anomalies.

### [IBM Cloud Managed Services »](#) May 2016 – August 2016

CMS is a portion of IBM providing managed services on top of a diverse cloud platform for hundreds of companies. Project areas focused around compliance, security, and automation. Mentorship under Steven J. Munroe on Power8+ Assembly and vectorizing SHA3.

### [Rochester Clinic »](#) 2014–2015

Rochester Clinic is a family owned clinic based in Rochester, Minnesota. Duties included development, application troubleshooting, installation of new systems, and virus removal on a mixture of Windows platforms.

- **Patient Data Migration** of 12k records to a new EMR provider.
- **Tech support:** providing technical support to a variety of staff.

## [Projects]

### [COMS 309 »](#) – EduTLS present

TLS 1.2 library implemented in C++.

### [Cryptopals »](#) present

Solving various cryptographic challenges and attacking insecure assumptions. Working on Set 8 (of 8).

### [cipherboy.com »](#) 2015–present

Single-page personal website with A+ [Qualys SSL Lab's »](#) rating.

### [Panthem »](#) 2014–present

Latin quiz website co-developed with my [brother »](#).

## [Education]

### Iowa State University (2015 – present)

- Majors: Computer Science and Mathematics
- Classification: 2nd Year, Senior
- Credits: 105
- Dean's List: Fall 2015, Spring 2016, Fall 2016
- GPA: 3.83

## [Technologies]

### Programming Languages:

Go, Ruby, Python, XML/HTML5, CSS3, JavaScript, PHP, C, C++, Assembly, Java

**Operating Systems:** Linux [Gentoo, Fedora, Debian], Mac OS X, Windows (XP – 10)

**Desktop Environments:** Cinnamon, Screen, Fluxbox, GNOME Shell, Unity, KDE

**Project Management:** Git, [GitHub »](#), Make

## [Awards]

### Awards

#### [Cyber Defense Competitions »](#)

- ISU CDC: 5th place – Fall 2016
- ISU CDC: 4th place – Spring 2016
- National CDC: 1st place – 2016
- ISU CDC: 2nd place – Fall 2015

### Events:

- [ACM-ICPC »](#) – Fall 2015, Fall 2016
- [HackISU »](#) – Fall 2015

## [Activities]

[Music Studies »](#): 13 years

**Tennis/Table Tennis:** 5 years

**Church (acolyte, crucifer):** 7 years

**Salvation Army Kettle Ringing (with instruments):** 4 years

**Festival of Trees:** 2 years

**Ubuntu Forums:** Over [600 »](#) posts.

**National Honors Society:** 2 years

References available upon request.

