

# Kyle Den Hartog

Email: [kdenhar@gmail.com](mailto:kdenhar@gmail.com)

Website: <https://kyledenhartog.com>

Cell Phone: 515-867-8375

GitHub: <https://github.com/kdenhartog>

**Security Engineer with a passion for information security, identity, and blockchain**

## Work Experience:

### **Information Security Engineer**

May 2016 – May 2017

ProCircular Inc., Iowa City, IA

- ❖ Programmed scripts, automated workflows, and improved business process efficiency to decrease vulnerability assessment times by 57.4%
- ❖ Conducted vulnerability assessments, external penetration tests, web application testing assessments, and red team engagements in an efficient manor allowing the company to reach profitability within 6 months
- ❖ Executed the creation of a product from concept to delivery for executive security awareness in 3 months
- ❖ Efficiently determined if clients were vulnerable to various web app vulnerabilities such as XSS, CSRF, RFI, LFI, code injection, authentication bypass, and others while utilizing the OWASP methodology
- ❖ Explored ISO 27001, NIST SP 800-53, and other compliance frameworks utilized for IT risk assessments, creation of standardized security policies, and regulatory compliance
- ❖ Delivered on time custom client reports with documented analysis of findings, vulnerabilities, exploits, gaps, risks, and recommendations that could be easily interpreted by clients with diverse technical backgrounds
- ❖ Collaborated with sales during client meetings, represented ProCircular at conferences, and conducted demonstrations and walkthroughs with potential clients to improve
- ❖ Reported directly to CISO and dotted line to CEO with regular mentoring sessions

## Skills:

- ❖ Strong understanding of network protocols such as IP, TCP/UDP, DNS, HTTP/S, and the OSI model
- ❖ Effective communicator capable of adapting content to the audience
- ❖ Dynamic and strategic problem solver capable of adjusting to find the necessary solution
- ❖ Solid knowledge of network security and application security principles and practices
- ❖ Proficient with a wide variety of infosec tools such as Nessus, Metasploit, Burp Suite, and Wireshark
- ❖ Competent with Windows, Mac OS X, and Linux operating systems
- ❖ Autodidactic learner with a willingness to grow

## Projects Summary:

### **Java programming projects:**

- ❖ Constructed a password manager using AES encryption and SHA512 hashing with open-source libraries
- ❖ Implemented a secure one-time-pad encryption scheme, one-time-password authentication scheme, and a RC4 stream cipher scheme
- ❖ Created Swift Shift, a mobile phone game available on the Google Play store

### **Python programming projects:**

- ❖ Wrote a web server that manually validates requests by parsing headers and provides a response
- ❖ Developed a peer-to-peer messenger chat client using UDP and TCP socket programming

### **Other projects:**

- ❖ Researched and drafted a framework to be used to quantify and compare a variety of identity systems
- ❖ Designed a personal website to host blog posts and project details in HTML/CSS/JavaScript

## Group Affiliations:

ID2020 Summit, attendee

June 2017

Open Web Application Security Project (OWASP) Iowa City chapter, member

spring 2017

University of Iowa Startup Games, participant

spring 2016

ACM Collegiate Programming Competition, Kirkwood CC team

fall 2014

## Education:

**University of Iowa**, Iowa City, IA

May 2017

BA in Computer Science