

# Kyle Den Hartog

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## **Professional Experience:**

### **Information Security Engineer**

May 2016 – May 2017

ProCircular Inc., Iowa City, IA

- Reported directly to CISO and dotted line to CEO with regular mentoring sessions
- Conducted vulnerability assessments, red team engagements, external and internal penetration testing, web application testing assessments, and exploitation for clients in numerous industries
- Wrote scripts, automated workflows, and improved processes to decrease assessment times by 50%
- Delivered custom client reports with detailed analysis of findings, vulnerabilities, exploits, gaps, risks, and recommendations that could be easily interpreted by clients with various levels of technical backgrounds
- Executed the creation of a new product for executive security awareness from concept to delivery
- Determined if clients were vulnerable to various web app vulnerabilities such as XSS, CSRF, RFI, LFI, code injection, authentication bypass, and others listed in the OWASP methodology
- Explored ISO 27001, NIST SP 800-53, and other cybersecurity frameworks to assist with the development of IT risk assessments
- Researched and informed company leaders on cybersecurity issues in law enforcement, legal, and healthcare industries which resulted in new target markets
- Utilized communication skills by supporting sales during client meetings, representing ProCircular at conferences, and conducting demonstrations and walkthroughs with potential clients

## **Red Team Tools:**

Kali Linux, Nessus, Wireshark, Burp Suite, Zaproxy, Nmap, Arachni, Subbrute, Maltego, Nikto, Metasploit, AFL Fuzzer, Klee, Dirb, BlindElephant, WPScan, W3af, Sqlmap, Aircrack-ng, Wifite, Dradis, XSSer

## **Relevant Courses and Projects:**

### **Computer Security Java 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

### **Networking Python 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

### **Personal Research Projects:**

- Researched and drafted a framework to be used to compare a variety of identity systems
- Deployed simple Blockchain smart contracts on an Ethereum test network in Solidity
- Designed a personal website to host blog posts and project details in HTML/CSS/JavaScript
- Created Swift Shift, an Android game on the Google Play store with 100 downloads

### **Object Oriented Software Development Java Project:**

- Simulated an Amazon warehouse, contributing about 1000 lines

## **Data Structures | Algorithms | Programming Language Concepts | Discrete Structures**

## **Group Affiliations:**

ID2020 Summit, attendee

June 2017

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

spring 2017

U. 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