

Kyle Den Hartog

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Address: 618 S Van Buren St. APT# 2, Iowa City, IA 52240 (Intend to relocate)

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
- Responsible for delivering vulnerability assessments, red team engagements, external and internal penetration testing, web application testing assessments, and exploitation
- Performed red team web application testing using OWASP standards including reconnaissance, XSS, authentication, buffer overflow, code injection, cryptography, and input validation testing
- Created automation of tools, workflows, and process improvement
- Conducted research for business development with theories, data analysis, and pilot projects
- Responsible for creating custom client reports interpreting vulnerabilities, exploits, gaps, risks, and recommendations
- Researched new product development from concept to delivery
- Assisted with incident response planning, implementation, and recovery
- Supported sales with client meetings, represented the company at conferences, and public speaking
- Explored ISO 27001, NIST SP 800-53, and Cybersecurity frameworks to assist with the development of risk assessments

Red Team Tools:

- Kali Linux, Nessus, NMAP, subbrute, Metasploit, Armitage, BurpSuite, OWASP Zap, Maltego, Wireshark, Nikto, AFL Fuzzer, Klee

Relevant Courses and Projects:

Computer Security Java Projects:

- Implemented a secure one-time-pad encryption scheme, one-time-password authentication scheme, and a RC4 stream cipher schemes
- Constructed a password manager using AES encryption and SHA512 hashing with open-source libraries (BouncyCastle)

Networking Python Projects:

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

Personal Research Projects:

- Designed a personal website to host content on current projects and blog posts in HTML/CSS/JavaScript
- Created Swift Shift, an Android game on the play store with 100 downloads
- Deployed simple Blockchain smart contracts on an Ethereum test network in Solidity
- Researched Identity and Authentication platforms that replace password based authentication

Object Oriented Software Development Java Project:

- Simulated an Amazon warehouse, contributing about 1000 lines

Data Structures | Algorithms | Programming Language Concepts | Discrete Structures

Group Affiliations:

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 Team

Fall 2014

Education:

University of Iowa, Iowa City, IA

May 2017

Bachelor of Arts in Computer Science

Kirkwood Community College, Iowa City, IA

May 2015

Associates Degree in Liberal Arts