Charles Perine

Boise, ID

https://charlesperine.com https://www.linkedin.com/in/charlesperine

SKILLSET

• Security Research

• Application Security

• Red Teaming

• Network Security

• Penetration Testing

• Embedded System Security

• Computer Security

• Reverse Engineering

• Control System Security

WORK EXPERIENCE

Trend Micro Irving, TX

Threat Researcher

Oct 2018 - Feb 2024

- Led multiple research projects, managing time-lines, research direction, and team coordination
- Conducted security assessments, uncovering vulnerabilities in multiple devices and notifying ZDI
- Developed a method to identify customers of cloud services
- Built, maintained, and monitored hyper-realistic factory honeypots, establishing a fictitious company to enhance realism and capture cyber threats
- Collaborated on several research projects, leading to the creation of white papers, blog content, conference presentations, and media coverage
- Tested Databricks and Retrieval-Augmented Generation (RAG) technologies to support a research project, optimizing data processing and information retrieval

Revolutionary Security

Blue Bell, PA

Senior Security Consultant

Oct 2017 - Sept 2018

- Performed programmatic and technical threat model for product development organizations
- Managed and executed pentesting and vulnerability assessments to evaluate and enhance the security of both corporate networks and industrial control systems
- Executed vulnerability assessment of sub-GHz radio networks and hardware

Leidos (formerly Lockheed Martin - IS&GS)

Valley Forge, PA

Information Assurance Engineer

Oct 2012 - Oct 2017

- Led pentesting engagements and vulnerability assessments to verify the security of corporate, industrial control, point of sale and Internet service provider systems
- Mentored junior consultants in industrial control system assessment methodologies
- Discovered multiple 0day vulnerabilities in industrial control systems
- Communicated complex technical details effectively to C-level management

General Electric

Van Buren Township, MI

Mar 2011 - Oct 2012

Lead Analyst - Security Assessments

- Performed software and hardware security assessments for intra-company organizations
- Led root-cause analysis investigations in response to product security incidents
- Directed small, agile, global assessment teams
- Trained analysts in fuzzing, reversing, and exploitation of control and embedded systems

Digital Bond, Inc.

Sunrise, FL

Security Consultant

Jan 2008 - Mar 2011

- Performed security assessments of Industrial Control Systems, Smart Grid, and Corporate Networks
- Generated custom Meterpreter scripts for complex ICS attacks
- Produced and instructed a protocol fuzzing, exploitation development, and firmware analysis curriculum

TECHNICAL EXPERIENCE

- 10+ years experience with *nix based operating systems
- $\bullet\,$ 10+ years experience with Industrial Control System security
- 5+ years security research
- Familiar with the following programming languages: C/C++, IA32, Perl, Python, SQL, Shell scripting

EDUCATION

California State University - Hayward Bachelor of Science in Computer Science	Hayward, CA Aug 2004 - Aug 2006
• Las Positas College Associate of Science in Computer Science	Livermore, CA Sep 2001 - Aug 2004
REcon - Philippe Langlois Mobile and Telecom Applied Hacking and Reverse Engineering	Montreal, ON Jun 2016
REcon - Joe Grand Hardware Hacking	Montreal, ON Jun 2015
REcon - Saumil Shah Exploit Laboratory	Montreal, ON Jun 2014
Immunity, Inc. Unethical Hacking	Miami, FL Nov 2008
• SANS • SEC 503: Intrusion Detection In-Depth	Monterey, CA May 2007