

Peter Rowlands <peter@pmrowla.com>

Yeonhui-ro 5-gil 54-11 1102-ho
Seodaemun-gu, Seoul, South Korea, 03716

(kr) +82-010-5170-0256 (us) +1-301-244-8081
<https://github.com/pmrowla>

SUMMARY

- Freelance software engineer with 11 years work experience developing computer software, spanning all stages of the development lifecycle from planning through product maintenance
- Experience includes network programming, software reverse engineering, exploit research and development, enterprise software development
- 4 years work experience as full-time remote engineer
- Legal work status in both United States South Korea (dual citizen)

NOTABLE FREELANCE EXPERIENCE

Independent Consultant

September 2017—June 2018

Oracle — Outside In Technology (OIT)

- Provided technical expertise and training to Oracle Outside In Technology team
- Worked as a full-time remote independent consultant for engineering team based in Bengaluru, India (worked from UTC+9, team based in UTC+5:30)
- Conducted on-site training in India for Oracle engineers regarding OIT internals, PDF content extraction, and document content processing in general
- Designed improvements to OIT architecture so it could be fully integrated into Oracle client's e-discovery product, and led Oracle engineering team efforts to implement these changes
- Provided general and technical direction for Oracle engineering team in order to better focus development efforts on the issues and features most critical to meeting Oracle client requirements

PRIOR WORK EXPERIENCE

Senior Member Technical Staff

June 2012—December 2016

Oracle — Product Development, Outside In Technology (OIT)

- Worked as a part of an engineering team based in Chicago, IL as both an on-site (2 years) and full-time remote (2.5 years) developer
- Actively contributed to OIT design and development while a full-time remote developer (worked from UTC+9, team based in UTC-6)
- Developed and maintained cross platform (Windows/Unix) filters in C for extracting content from various file formats (PDF, MS Office, OpenDocument and others)
- Designed, proposed and then implemented new features to support a wider range of PDF specification features in order to meet customer requirements
- Maintained internal core C and C++ libraries used for representing extracted content from documents processed in OIT
- Acted as Security Lead for the OIT team
- Implemented and maintained an internal instance of the HP Fortify Software Security Center tool suite to maintain compliance with Oracle's security standards
- Worked with Oracle support and customers to address critical security issues in OIT document filters and core libraries

Senior Consultant
Booz Allen Hamilton

June 2010—May 2012

- Provided technical expertise and project management support to USA Department of Defense (DoD) clients
- Developed tools in C, assembly (PowerPC) and Python to support DoD computer network exploitation efforts
- Performed vulnerability analysis of software and firmware binaries for embedded systems using reverse engineering tools (IDA Pro, Ghidra)
- Developed proof of concept exploits for newly discovered vulnerabilities in these embedded systems
- Developed software for interfacing with proprietary embedded real-time operating systems

Stokes Intern
United States Department of Defense

August 2006—December 2009

- Developed Linux device drivers for use in embedded systems
- Developed software to support computer network penetration testing efforts

SKILLS

- C
- Python
- Django
- Flask
- Software Reverse Engineering
- English (native speaker)

EDUCATION

Bachelor of Science, Computer Engineering
University of Notre Dame, Notre Dame, IN

May 16, 2010