

## **Peter Rowlands <peter@pmrowla.com>**

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<https://github.com/pmrowla>

### **SUMMARY**

- 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
- Over 5 years work experience as full-time remote engineer
- Legal work status in both United States and South Korea (dual citizen)

### **WORK EXPERIENCE**

*Senior Software Engineer* March 2020—Present  
Iterative.ai — DVC.org

- Contributed to design and development of DVC, an open-source dataset and ML model version control system

*Freelance Software Engineer* January 2017—March 2020

*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

*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*

June 2010—May 2012

Booz Allen Hamilton

- 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*

August 2006—December 2009

United States Department of Defense

- 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