

Ben Murphy

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- OBJECTIVE** ♦ To utilize my computing knowledge and skills in an exciting and challenging environment.
- EDUCATION** ♦ **Queensland University Technology**, 2005 - 2006
Honors, Information Technology
- ♦ **Queensland University Technology**, 2002 - 2004
B.S., Information Technology
Majoring in Software Development.
- SKILLS** ♦ Ruby, Erlang, C, Java, C#, Visual Basic, DTrace
- ♦ Rails, Git
- WORK** ♦ **Software Engineer**, Fonix Mobile November 2013 - Present
- EXPERIENCE** · Created and maintained Fonix SMS Gateway written in Erlang that integrates with Mobile operators using a mix of SMPP and HTTP interfaces. The Gateway is used for both bulk SMS services and premium billing.
- Worked on Fonix Ruby on Rails projects including ZenSend bulk SMS API, SMS competition platform and winner picking solution. This included work with ReactJS allowing non-technical users to create a tree diagram that controls how SMS messages are responded to. ReactJS was also used in creating a page similar to tweet deck with infinite scroll for displaying incoming SMS messages.
- ♦ **Software Engineer**, Mobile Interactive Group/Velti Sep 2008 - November 2013
- Maintained MIG SMS Gateway written in Erlang.
- Created and maintained MIG Mobile CMS platform written in Java using Spring and Hibernate.
- ♦ **Software Engineer**, Mincom February 2006 - June 2008
- PROJECTS** ♦ **Java** Between 2012 and 2014 I found 18 Java Sandbox escapes. Because of the way Oracle reports vulnerabilities it is difficult to attribute who was the first to report a vulnerability. I know that at least 2 of the vulnerabilities I reported collided with Adam Gowdiak because I reverse engineered them from public statements he made. I have written up three of the vulnerabilities on my blog. (ZDI-13-002, ZDI-13-040, ZDI-13-041, ZDI-13-042, ZDI-13-075, ZDI-13-079, ZDI-13-089, ZDI-13-132, ZDI-13-159, ZDI-13-160, ZDI-13-244, ZDI-13-245, ZDI-13-246, ZDI-13-247, ZDI-13-248, ZDI-14-103, ZDI-14-104, ZDI-14-105)
- ♦ **Joyent** Between 2015 and 2017 I found 3 SmartOS Zone escapes that used DTrace, 1 SmartOS Zone escape that was based on the previous BadIRet work and 5 SmartOS arbitrary kernel memory reads using DTrace. In addition I found 2 vulnerabilities in the Joyent SDC Docker API that allowed for Zone escapes. (ZDI-16-168, ZDI-16-169, ZDI-16-170, ZDI-16-465, ZDI-16-274, ZDI-16-464, ZDI-16-344, ZDI-16-498, ZDI-16-499, ZDI-16-500, ZDI-16-466, ZDI-16-453, /proc vulnerability)
- ♦ **Rails**, CVE-2012-2661 (Unsafe Query Generation), CVE-2013-0156 (Remote Code Execution)
- SPEAKER** ♦ **DTrace Conf 2016** DTrace Exploitation
- HONOURS** ♦ **Best Server Side Bug**, Pwnies, 2013
- ♦ **Pwn2Own Java**, 2013

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