

# Kevin P. Dyer

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**github:** <https://github.com/kpdyer>

**ABOUT KEVIN** I'm a Software Engineer at Google building security infrastructure to support the growth of storage systems.

**EDUCATION**

2015 **Ph.D., Computer Science**  
Portland State University

2007 **M.Sc. with Distinction, Mathematics of Cryptography and Communications**  
Royal Holloway, University of London

2006 **B.S., Computer Science with Mathematics**  
Santa Clara University

**CURRENT ROLE** 2015 - now **Software Engineer**, Google, Mountain View, CA, USA  
Storage system security and crypto libraries/services.

**PREVIOUS ROLES**

2014 (intern) **Software Engineer**, Google / University of Washington  
*Peer-to-peer networking, nodejs, C++, Cryptography, JavaScript*

2013 (intern) **Research Scientist**, RedJack, Silver Spring, MD, USA  
*Network security, Python, Cryptography, Multi-threaded programming*

2010 - 2015 [Ph.D. Student]

2008 - 2010 **Software Engineer**, NDS, Staines, UK  
- *Web app with 1M+ users*, PHP, Oracle, CSS, JavaScript, Java  
- *In-browser DRM*, C++, Python, DRM, DirectX  
- *Backend Crypto Infrastructure*, Java, XML

2007 - 2008 **Software Engineer**, Imagineer Systems, Guildford, UK  
*VFX Suite for Film/TV Post Production*, C++, Qt, PostgreSQL

2002 - 2007 [B.S., M.Sc. Student]

**SELECTED OPEN SOURCE PROJECTS**

- **fteproxy**, Python, <https://fteproxy.org>  
A TCP proxy that transmits messages that conform to a user-specified regular expression.
- **marionette**, Python, <https://github.com/kpdyer/marionette>  
A TCP proxy that allows users to have fine-grained control over traffic features such as connection duration, number of messages sent, and message format using libfte.

**SELECTED PUBLICATIONS**

- **Dyer K.P.**, Coull S.E., Shrimpton T. *Marionette: A Programmable Network Traffic Obfuscation System*, USENIX Security 2015. (Acceptance rate: 15%)
- **Dyer K.P.**, Coull S.E., Ristenpart T., Shrimpton T. *Protocol Misidentification Made Easy with Format-Transforming Encryption*, In proceedings of the ACM Conference on Computer and Communications Security (CCS), 2013. (Acceptance rate: 20%)
- **Dyer K.P.**, Coull S.E., Ristenpart T., Shrimpton T. *Peek-a-Boo, I Still See You: Why Efficient Traffic Analysis Countermeasures Fail*, In Proceedings of the 33rd IEEE Symposium on Security and Privacy, 2012. (Acceptance rate: 13%)

For a complete list of my publications, visit my [Google Scholar](#) page.