Mohammad Karami

mkarami@gmu.edu

Education

- **George Mason University** — Fairfax VA, USA
  PhD, Information Security and Assurance, GPA 4.0 / 4.0 — 2012 - 2016
- **Iran University of Science and Technology** — Tehran, Iran
  MSc, Electronic Commerce, GPA 17.31 / 20 — 2006 - 2009
- **University of Applied Science and Technology** — Arak, Iran
  BSc, Software Engineering, GPA 16.6 / 20 — 2001 - 2005

Work Experience

- **Google, Software Engineering Intern, May 2015 - Aug 2015, San Bruno, CA, USA.**

  Used Google's machine learning frameworks to develop a classifier in C++ to detect misleading videos uploaded to YouTube.

- **Google, Software Engineering Intern, May 2014 - Aug 2014, San Bruno, CA, USA.**

  Some YouTube abusive services such as fake views are traded on blackhat forums. The goal of my project was to automate the gathering of intelligence on the activities of fraudulent businesses providing YouTube abusive services and their customers. Built a python crawler running on Google App engine to collect the content, used some Google internal technologies to do semantic analysis on the collected content and exported some interfaces for users to explore the gathered intelligence.

- **Huawei Technologies Co. Ltd, R&D Software Engineer, Dec 2010 - Dec 2011, Tehran, Iran.**

  Worked as an expert and developer for Huawei Mediation platform. The Huawei Mediation is a convergent platform for collecting, processing and transferring call detail records (CDRs) generated by various elements of a mobile phone network to downstream systems. Our team was responsible for development and integration of new functionalities based on a special-purpose proprietary programming language. The Mediation deployment managed by our team was processing more than a billion CDRs per day generated by more 100 different network elements.

- **Sina Mobile Commerce, J2ME App Developer, Dec 2007- Dec 2009, Tehran, Iran.**

  Developed a J2ME mobile App to allow prepaid subscribers of Irancell, a mobile phone network operator in Iran, to recharge their SIM cards.

Publication

- **M.Karami**, Y.Park, D.McCoy, Stress Testing the Booters: Understanding and Undermining the Business of DDoS Services, Proceedings of the World Wide Web Conference (WWW), Montreal, Canada, April 2016.

- D.Wang, M.Der, **M.Karami**, L.Saul, D.McCoy, S.Savage, G.M.Voelker, Search + Seizure: The Effectiveness of Interventions on SEO Campaigns, Proceedings of the ACM Internet Measurement Conference, Vancouver, BC, Canada, November 2014.

- **M.Karami**, D.McCoy, Folex: An Analysis of an Herbal and Counterfeit Luxury Goods Affiliate Program, eCrime Researchers Summit (eCrime), San Francisco, USA, 2013 (Best Student Paper).

- **M.Karami**, D.McCoy, Understanding the Emerging Threat of DDoS-as-a-Service, Proceedings of the USENIX Workshop on Large-Scale Exploits and Emergent Threats, Washington D.C., August 2013.

- **M.Karami**, M.Elsabagh, P.Najafiborazjani, A.Stavrou, Behavioral Analysis of Android Applications Using Automated Instrumentation, In the Proceedings of the 7th International Conference on Software Security and Reliability, Washington DC, USA, 2013.

- **M.karami**, M.Fathian, An Efficient Trust Establishment Framework for MANETs, International Journal of Computer Science and Information Security, 8(4), pp. pp. 252-259, 2010.

- H.Parvin, **M.Karami**, B.Minaei-Bidgoli, Diversity Generation in Classifiers Ensemble, Far East Journal of Experimental and Theoretical Artificial Intelligence, 4(1), pp. 1-32, 2009.

- **M.Karami**, M.Fathian, A Robust Trust Establishment Framework Using Dempster-Shafer Theory for MANETs, The 4th International Conference for Internet Technology and Secured Transactions, London, UK, 2009.

- **M.Karami**, M.Fathian, An E-business Model Facilitating Service Provider Selection in B2C E-Commerce, The 8th International Conference on Electronic Business, Hawaii, USA, 2008.

Graduate Courses

- Malware Reverse Engineering, Spring 2013.
- Operating Systems Security, Spring 2013.
- Intrusion Detection, Fall 2012.
- Security Experimentation, Fall 2012.
- Cyber Crime, Fall 2012.
- Computer Communications and Networking, Spring 2012.
- Network Security, Spring 2012.

Skills

- **Programming Languages**: Python, C++
- **Operating Systems**: Very comfortable with Linux
- **DBMS**: Postgres, MySQL
- **Others**: Wireshark, IDA Pro, Bro IDS, Snort, LaTeX