Shahryar Baki

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Employment Experiences

- Software Engineer Intern at Google, Sunnyvale, CA Summer 2018-present Implementing Remote Procedure Call Bot using Natural Language Generation (by employing Recurrent Neural Networks)
- Software Engineer Intern at Google, Mountain View, CA

 Implemented a high performance and persistent message queuing server using Spanner database (C++)

 Implemented a batch processing tool for reviewing Google AdWords (Java)
- Software Engineering Manager at FANAP, ICT Subsidiary of Pasargad Financial Group, Tehran, Iran

 2013-2015

 Designed and developed embedded applications for various types of POS terminals (C)

Designed and developed embedded applications for various types of POS terminals (C) Managed development team, implemented and tracked development timelines, and negotiated feature sets with the development leads and end users.

2011-2013

2011 - 2013

• Software Engineer at Sharif University CERT, Tehran, Iran Implemented a botnet detection system by clustering network traffic (Java) Implemented a DNS sinkhole system (Java) Organized second and third Capture The Flag (CTF) competition

• Software Engineer at Iran National Search Engine, Tehran, Iran 2010—2011 Customized Apache Lucene for Persian language and implemented Map/Reduce based indexer Worked with Hadoop cluster, HDFS and Hbase

Education

• Ph.D. in Computer Science
University of Houston, TX, GPA: 3.85/4
Natural Language Generation, Usable Security, Phishing

• M.Sc. in Computer Engineering Sharif University of Technology, Iran, GPA: 3.69/4 Thesis: Distributed Denial of Service Attack Mitigation

• B.Sc. in Computer Engineering
University of Tehran, Iran, GPA: 3.19/4

Technical Skills

- Programming languages: C/C++, Java, Python, R, C#, HTML, lua
- Platforms: Linux, Windows, Embedded Linux
- Other technologies: Spanner, MapReduce, Apache Hadoop, Git, SVN, Redmine, iptables, TCPdump, Wireshark, Snort, MATLAB, MYSQL, Hbase, Wordnet
- Libraries: Keras, Scikit-learn, Weka, Gensim, Jnetpcap

Technical Projects

• ICE
An open-source and academic Idiom and Collocation Extractor (available in ICE Github).

Publications

• Shahryar Baki, Rakesh Verma, Arjun Mukherjee and Omprakash Gnawali. "Scaling and Effectiveness of Email Masquerade Attacks: Exploiting Natural Language Generation." In Proceedings of the 12th ACM on Asia Conference on Computer and Communications Security (ASIACCS). 2017.

- Luis, Moraes, **Shahryar Baki**, Rakesh Verma, and Daniel Lee. "Identifying reference spans: topic modeling and word embeddings help IR." International Journal on Digital Libraries (2017)
- Luis, Moraes, **Shahryar Baki**, Rakesh Verma, and Daniel Lee. "University of Houston at CL-SciSumm 2016: SVMs with tree kernels and Sentence Similarity." Proceedings of the Joint Workshop on Bibliometric-enhanced Information Retrieval and Natural Language Processing for Digital Libraries (2016)
- Rakesh Verma, Vasanthi Vuppuluri, An Nguyen, Arjun Mukherjee, Ghita Mammar, **Shahryar Baki** and Reed Armstrong . "Mining the Web for Collocations: IR Models of Term Associations." International Conference on Intelligent Text Processing and Computational Linguistics, 2016. (**Best Paper** Award First Place)

Fellowships, Awards, and Honors

• Department of Computer Science, University of Houston Best Junior PhD Student	2017
• 37th IEEE Symposium on Security and Privacy Travel Grant	2016
• Grace Hopper Conference Travel Grant	2016