Roman Sinayev

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Professional Experience

May 2013-Present Security Intelligence Software Engineer, Juniper Networks, San Francisco, CA.

Designed and implemented a unique malware analysis and identification solution utilizing machine learning and static analysis for Juniper Sky Advanced Threat Prevention;

Created machine learning models to identify, analyze and cluster malware;

Developed a data acquisition and storage pipeline that is used to acquire new software samples, extract metadata and develop new statistical models for malware identification;

Implemented a hardened platform-independent solution for authenticode certificate metadata extraction and certificate validation.

Jan 2012–Feb 2013 Web Developer/Consultant, Genesis21, Inc, Brooklyn, NY.

Consulted on Amazon Webstore and Ebay Marketplace integration; Consulted on unified product database design and implementation;

Automated marketplace product posting.

Oct 2011-Sep 2012 Bioinformatics Analyst, Stony Brook University, Stony Brook, NY.

Used machine learning and statistical techniques to computationally identify sequence motifs (short nucleotide patterns) in herpesvirus and mouse genomes;

Statistically analyzed microarray gene expression data to determine motif significance.

Dec 2011–Feb 2012 Research Assistant, Stony Brook University, Stony Brook, NY.

Evaluated the algorithmic efficiency and accuracy of DOCK's de novo ligand construction;

Statistically evaluated the computational performance and accuracy of current molecular similarity techniques on large datasets of small molecules.

May 2010–Jan 2011 Research Technician, Albert Einstein College of Medicine, Bronx, NY.

Aug 2008–Dec 2009 Research Fellow, Brookhaven National Laboratory, Upton, NY.

Computer Skills

Programming Langs Python, Java, C, Matlab, R, SQL, Nim, LATEX

Web Development Django, Flask, Bottle, HTML, CSS, RabbitMQ

Databases PostgreSQL, MySQL, Redis, LevelDB

AWS EC2, S3, Aurora, RDS, VPC, SQS

Education

Sep 2011–Dec 2012 MS Applied Mathematics, Stony Brook University, Stony Brook, NY.

Sep 2010–Dec 2010 Graduate Biochemistry, Albert Einstein College of Medicine, Bronx, NY.

Sep 2004-May 2009 BS Biochemistry, Stony Brook University, Stony Brook, NY.

Presentations

Sinayev, R., Michaelides M., Delis F., Piyis Y.K., Wang G.J., Volkow N.D., Thanos P.K. (2009).

Age- and Diet-Related Changes in Dopamine Transporter (DAT) Binding in Obese Leptin Receptor-Deficient Rats. Society for Neuroscience, Chicago: Poster DD-56.

Santana, A., Bulaklak, K., Cheng, B., Sinayev R., Krug, L.T. (2012).

Investigating the role of NF-kB in the regulation of MHV68 gene expression. International Congress on oncogenic Herpesviruses and Associated Diseases, Philadelphia.

Publications

Santana A.L., Oldenburg D.G., Kirillov V., Malik L., Dong Q., Sinayev R., Marcu K.B., White D.W., Krug L.T. (in review).

LPS/TLR4 Signaling Enhances RTA Occupancy of the Origin of Lytic Replication during Murine gammaherpesvirus 68 Reactivation from Latency, Pathogens