



Amit Somech Data Researcher / Security Expert

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Personal Profile: I am a second year PhD student (TAU), and a cyber-security consultant. I have a passion for data in all of its shapes and forms.

Research Interests Interactive Data Analytics, Information Extraction, Semantic Web, Crowd Sourcing

Professional Experties: Web development, Computer and network security, Practical machine learning and data mining.

Key Qualities: End-to-End Project execution: from a concept to a proof-of-concept in minimal time
Motivating people into radical ideas
Interdisciplinary thinking

Education

Ph.D, Computer Science (2015-Present)

Tel-Aviv University, Israel

Research areas: Interactive Data analytics, semantic graph processing,
Thesis title: *Context-sensitive computation in data management applications*

M.Sc., Computer Science (2011-2014)

Tel-Aviv University, Israel

Thesis: *Ontology Driven Crowd Mining*

B.Sc, Computer Science & Middle East History (2005-2008)

Haifa University, Israel

IDF (Intel.) Elite Military Academy - "Havatsalot" (2005-2008)

Elite 3-years program aimed to train multi-skilled intelligence officers.

Teaching

2015-Present:

Database Systems, (Teacher Assistant)
Tel-Aviv University, Israel

Workshop in Data Science (Teacher Assistant)
Tel-Aviv University, Israel

Professional Experience

Senior cyber security consultant, Team8 Labs. (2015-Present)

Leader of IR (Incidence Response) teams, responsible for investigating, identifying and blocking cyber security threats and live attacks.

Consultant, Epistema (2015)

Consulted for a funded startup company focused on collaborative knowledge management solutions for enterprises. Assisted in shaping data models and algorithms for crowd based applications, and embedding them in a commercial product.

Web App. security team leader, Unit 8200 (2011-2014)

Led a team of 14 web application security experts. We executed complex and innovative projects (included both research and development) in a web environment, computer network, and mobile security.

Server side developer at Weesh (2012).

Joined a startup company for a 2-month stay in NYC, for participating in a startup acceleration program by DreamIt Ventures. I was responsible for the back-end development (PHP/MySQL env.) and server-side security.

Network Security Researcher, Tech. Unit of the IDF Intelligence corps. (2008-2011).

Performed applied research in the fields of Windows based systems, computer network and application security.

Skills and Abilities

Computer & Network Security

I'm well experienced with web applications and enterprise network security.

Programming

Fluent: Python, PHP, HTML, JavaScript

Intermediate: C, C++, .NET env.

Data Management

RDBMS: MySQL, MsSQL

NoSQL: Solr, Neo4j

Personal Skills and Interests

Classic pianist

Electronics: I fix and refurbish old electronic devices: Tube TVs, transistor radios, etc.

Maintaining a cheesecake reviews blog (eatcheesecakes.com)

Publications

2016:

December: A Declarative Tool for Crowd Member Selection

Yael Amsterdamer, Tova Milo, Amit Somech and Brit Youngmann, VLDB 2016

REACT: Context-Sensitive Recommendations for Data Analysis.

Tova Milo and Amit Somech, SIGMOD 2016

2015:

Managing General and Individual Knowledge in Crowd Mining Applications

Yael Amsterdamer, Susan B. Davidson, Anna Kukliansky, Tova Milo, Slava Novgorodov and Amit Somech, CIDR 2015

2014:

Ontology Assisted Crowd Mining

Yael Amsterdamer, Susan B. Davidson, Tova Milo, Slava Novgorodov and Amit Somech, VLDB, 2014.

OASSIS: Query Driven Crowd Mining

Yael Amsterdamer, Susan B. Davidson, Tova Milo, Slava Novgorodov and Amit Somech, SIGMOD 2014