

Rei Shapira

Tzofit, Israel | Tel: (+972) 545-708961 | Email: rei.shapira@outlook.com | [LinkedIn](#)

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- SUMMARY**
- 18 years of experience leading development of enterprise-level software, frameworks, APIs
 - Held both Team Leader and customer-facing Software Architect roles in R&D environments
 - MSc Speech & Language Processing (University of Edinburgh)

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- KEY SKILLS**
- **Languages:** C# / Java (Advanced), Python (Intermediate), Bash / Shell Scripting (Novice)
 - **SCM / DevOps:** Git / TFS, Jenkins, Docker, AWS, Spotinst
 - **Databases / Search:** MS SQL Server, PostgreSQL, Lucene, Elasticsearch
 - **Frameworks:** .NET, WCF, SOAP/WSDL/RESTful Web Services, Winforms, Flask, Spring

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- EXPERIENCE**
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| 06/2018 – Present | Software Development Team Lead
R&D | Keywee
Tel-Aviv, Israel |
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- Leading the development of Keywee's core product, developing in Python and Java (Linux environment), managing and mentoring a team of 3 developers and 2 QA / Support engineers. Working with Agile practices (JIRA / Scrum) and serving as the focal point between R&D and stakeholders across the company.
 - Responsible for the day to day prioritization, planning, and design of new features, focusing on system architecture, improving code quality and maintainability.
 - Actively refactoring legacy code of existing system components, with particular emphasis on separation of concerns between different services, database normalization, and strengthening the core object model.
 - Taken ownership of the product's DevOps infrastructure, migrating older, legacy deployments to a single, consolidated Docker-based approach to facilitate faster development and easier deployment for our growing assortment of microservices. Tools: Git, Jenkins, Docker, AWS.

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| 10/2014 – 06/2018 | Senior Software Developer
R&D | ClearMash
Ra'anana, Israel |
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- Led R&D of ClearMash's Search and Data Processing engines.
 - Re-engineered the product's Search engine to provide a robust solution for ClearMash's unique requirements from the underlying search infrastructure.
 - Developed ClearMash's data migration and ETL engine used in large-scale customer projects.
 - Provided customers with consultation and on-site training surrounding search, and optimization of search relevancy for specific customer use cases.
 - Developed several code generation DSLs (Domain Specific Languages) to support DevOps / development life cycle management and accelerate professional services customizations and customer data migrations.

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| 09/2013 – 10/2014 | Senior Software Developer
Enterprise Analytics Research Group | NICE Systems
Ra'anana, Israel |
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- Led the design and development of the text team's research infrastructure and APIs.
 - Redesigned NICE's NLP text processing pipeline to support processing on the NICE Enterprise Big Data platform. Developed in Java, using Apache UIMA, Solr.
 - Acted as team representative and focal point for other product groups and divisions at NICE.

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| 06/2013 – 08/2013 | Software Developer (MSc Summer Internship)
Design & Innovation Lab | ADAPT Research Centre
Dublin, Ireland |
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- Took a gap year (2012-2013) to pursue an MSc in Speech & Language Processing, combining both my passions for software development and linguistics / NLP.
 - MSc thesis project – Detecting Indirect Forms of Offensive Language using Commonsense Reasoning and Conceptual Modeling of Social Stereotypes.
 - Designed and implemented a strongly-typed framework to assist in the creation, automatic generation, and evaluation of domain-specific social stereotype semantic knowledge bases used for automatic classification of offensive language.
 - Combined Python-based semantic reasoning toolkits (e.g. ConceptNet) with the Java-based Stanford parser and orchestrated them using web services (bottle.py, JAX-WS), and a .NET client.

	10/2008 – 08/2012	Software Architect R&D Group	dbMotion Be'er Sheva, Israel
	<ul style="list-style-type: none"> Owned the technical roadmap and produced high level architecture for the core platform: web applications, backend web services, and data integration layers. Responsible for conducting code reviews and providing technical guidance to developers. Lead consolidation of the product's clinical data models into one uniform schema and API. Implemented IHE's XDS.b profile and took dbMotion to its first IHE Connectathon (North America 2010), receiving full accreditation. Represented dbMotion and participated in the IHE Interoperability Showcase at HIMSS 2010 in Atlanta as an XDS.b repository and registry. Implemented two additional IHE profiles (PIX and PDQ) as well as an HL7v2.5 parsing library, and returned a year later to the North American 2011 Connectathon, receiving full accreditation. Produced a 140-paged SDK document describing 27 key product scenarios. Redesigned key services to address growing scalability and performance requirements. Designed a design-time/runtime configuration object model providing for a novel way of dealing with increasingly intricate and complex configuration use cases within the product. 		
	<u>Industry and Customer Engagement</u>		
	<ul style="list-style-type: none"> Presented at customer RFP sessions across North America and APAC, specializing in Security, SDK integration, and technical standards compliance. Owned the architecture on joint-development projects with UPMC, Allscripts, Google, IBM, and Visionware, in key areas such as SDK, SSO, EMPI, PHR, CCD. Represented dbMotion in "Meaningful Use" US governance certification assessments and led the software security assessment sessions. 		
	08/2004 – 10/2008	Software Development Team Lead R&D Group	dbMotion Be'er Sheva, Israel
	<ul style="list-style-type: none"> Developed the platform's security layer and web services using C#, WSE, AzMan, and SQL Server – providing Authentication, Authorization, User Profiling, Federated Security, and Patient Consent functionality to all backend services and applications. Developed the security layer's web-based management application using ASP.NET, as well as a PowerShell snap-in used for managing and automating production security settings. Led a small team of two developers and mentored three other software developers. 		
	04/2001 – 08/2004	Software Developer IDF Recruitment Center	Israel Defense Forces (IDF) Ramat Gan, Israel
	<ul style="list-style-type: none"> Led and trained a team of seven developers. Developed an n-tier composite, smart-client applications platform using VB.NET and SQL Server, which hosted dozens of in-house applications used at the induction center. Developed several client-server applications for various departments at the recruitment base. 		
EDUCATION	2012 – 2013	MSc Speech & Language Processing	University of Edinburgh, UK
	<ul style="list-style-type: none"> MSc thesis project – <i>Detecting Indirect Forms of Offensive Language using Commonsense Reasoning and Conceptual Modeling of Social Stereotypes.</i> Key courses – Speech Processing, Speech Synthesis, Advanced Natural Language Processing, Machine Translation, Automatic Speech Recognition, Natural Language Generation. 		
	2007 – 2012	BA Linguistics	Ben-Gurion University, Israel
	<ul style="list-style-type: none"> Graduated summa cum laude (GPA 95.8). Key courses – Syntax, Semantics, Phonetics, Phonology, Computational Linguistics. 		
AWARDS	2012	Dean's Academic Excellence Award	Ben-Gurion University
	2008	CEO Employee of the Year Award	dbMotion
	2003	Outstanding Soldier Award	Israel Defense Forces (IDF)