

Joshua Fox

יהושע פוקס

Hands-on Architect and Dev Manager

joshua@joshuafox.com

+972-545691165

Aderet 1041, Emek Haela, Israel

<http://joshuafox.com>

Strong track record of building software projects from initial idea to success, creating data-rich products in areas including search, NLP, semantics, privacy, social networking, and metadata.

Experience

*Principal Architect, **Twiggle.com**, 2015-*

- Technical leadership in architecture and dev processes in VC-backed startup creating Product Search--making it easy to choose a model of smartphone, TV, etc. (There's no one tool for that today.)
- Architected and coded scalable system with Apache Spark on Amazon Web Services, using a data-mining model of retail products, for hyperfast, accurate product search.
- Spoke on behalf of company in professional forums.

Co-founder, RightJoin.io, 2014-2015

- Developed cloud SaaS using Ruby on Rails, JavaScript, PostgreSQL, with analytics on Apache Spark and Cassandra, for efficient searching and matching of software engineers and employers.
- Published articles in some of the world's highest-traffic sites

*Project Lead, Dev Manager, **IBM** Israel Software Labs, 2007-2014*

- Created and drove a new privacy product, the **Guardium Redaction system**, which automatically finds and deletes relevant information in unstructured data. The product was a Java clusterable server with C++ components, using Optical Character Recognition and Information Extraction (Named Entity Extraction, Natural Language Processing), with a Flex (ActionScript) and SOAP/REST Web Service front end, deployed on Windows and Linux.
- In a hands-on role, designed and coded key components, led team including local and East Asia, applied and refined agile dev practices, **gained mindshare** through articles and public speaking on Clojure, JRuby on Rails, privacy for the cloud, metadata mining, etc.
- Awards: Four Patent Plateaus for filing 12 **patents** on privacy, security, key-value databases, data mining, etc.; Centennial Innovation Contest Winner for "Real-time Epidemiological Analytics Using Heterogeneous Data Sources" (2011); Tech Community Bonus Award and Academy of Technology Thanks Award (2011); Israel Software Labs Excellence Award for driving privacy concept through full product funding (2009).
- Launched and led seed projects, including metadata mining and indoor navigation.

*Principal Architect, **Mercury** (acquired by HP), Israel, 2005-2007*

- Drove integration across five P&L product lines to permit new high-margin offerings; built cross-company executive buy-in; initiated full product-suite integration at HP after acquisition.
- Architected company-wide integration for Java and .NET products using Service Oriented Architecture, an Enterprise Service Bus, and a common semantic model.

Chief Software Architect, **Unicorn** (acquired by IBM), Israel, 2001-2005

- As hands-on technical lead for a pioneering ontological system, designed and coded a leading-edge product for the enterprise semantic Web: A Java server with scripting in Python (a pure-functional variant for ontologies), with SQL on Oracle and SQLServer, as well as key-value based graph persistence.
- Continually improved software development practices, including automated testing and code quality.
- Served as hands-on technical lead for a next-gen key-value graphical datastore, ultimately adopted by IBM as infrastructure for key information management products.
- **Built mindshare** by speaking on Java, information management, etc. at international technology conferences and publishing in major technical publications.
- Filed 5 [patents](#).

Senior Software Architect, **VocalTec**, Israel, 1998-2001

- Architected and developed an Internet collaboration system: a Java clustered server with DCOM C/C+ components, with a JavaScript front end with an early implementation of Comet.
- Responsible for core components including the server, firewall-tunneling, and firewall detection systems. Represented company at IETF SIP standards conference.
- Led team developing core distributed components, including one of the first implementations of the now-common Comet web communication model.
- Filed 2 [patents](#) and a trademark.

Advising, Consulting, Volunteering

- Advised a social-networking startup implementing a Web 2.0 Linux-Apache-MySQL-PHP app for a non-profit. Developed server and supervised offshore development.
- As a consultant, wrote technical White Paper on a strategic Java/.NET integration product.
- Wrote natural-language-processing software in C++ for accessibility product.
- Taught seminars in Israel and Canada on distributed computing in Java.

Education

Harvard University, Ph.D. Semitic Philology

- Dissertation on morphological patterns accepted with distinction.
- Multiple major awards, honors, and fellowships.

Brandeis University, B.A. Mathematics *summa cum laude*

- High honors in mathematics, Phi Beta Kappa, Dean's List (all semesters), multiple major awards and fellowships.

Computer science and software engineering

- 19 computer science courses at Harvard University, Open University, and more.