

David Goldfarb

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Seeking challenging projects, collaborations, and joint ventures

I'm looking for the next big technical challenge, where I can push an organization to exceed the limits of what is "possible". I can help if you are looking to guide your company into new directions or to explore and prototype new technologies.

I've spent my entire career helping to develop the technologies that make today's world so exciting. From Internet, AI, and window systems in the early eighties through advanced community applications today, I've had the pleasure of riding each wave of the emerging tech economy.

I've repeatedly found that the most interesting areas involve convergence. I've helped to unite software and intelligence, computers and media, multi-modal interfaces, telephony and the Internet, language design and optimization, software engineering and dev/debug tools, and even bio-computing and language design.

I work with companies that are looking to ramp-up new technologies through "0-to-60" acceleration. I take new ideas and convert them into working prototypes. I steer successful handovers of these prototypes into the company's core development teams for commercial deployment.

I also offer startup CTO services including project design, protocol specification, team coaching, industry liaisons, and patent management.

Career History

Degel Software Ltd.

Beit Shemesh, Israel

[1988 to present] Founder and President of Degel Software Ltd., a software development boutique, offering the services of David Goldfarb and his teams of top-notch software developers and designers. The Degel *SW/AT Team*, known for "solving the unsolvable," assisted major companies such as Orange UK, Sun, ICQ/AOL, and Intel as well as many notable smaller companies. (See *Degel Client Successes* below).

Vringo Inc. (VRNG)

Beit Shemesh, Israel

[2006 to 2010] Co-founder and CTO of Vringo Inc. and Vringo Israel Ltd. Vringo the leader in shared video ringtones, and an early pioneer in mobile social apps. I was responsible for core technical design, roadmap, patent strategy, and partner technical relations. Led creation of the Vringo client/server architecture and mobile client apps. Responsible for spearheading handset changes adopted by Nokia, Sony-Ericsson, Samsung, Sun, and Motorola. Steered Vringo's technology through a successful IPO.

2AM Development Ltd.

Kibbutz Tzora, Israel

[1996 to 2000] Founder and VP Technology. Directed and developed 2AM's core technology, 2AM CREATION®, an engine which supported all aspects of massively distributed Internet applications, including a scripting tool and an online run-time environment. Led development of Creation from an initial prototype to a system used by more than 250,000 users, a significant fraction of the total Internet population at the time..

Technical responsibilities include design and implementation of the development substrate and run-time environment; optimization and code efficiency; graphical substrate; 3rd-party tools integration; and platform portability issues. Responsible for converting Creation from a simple distributed game engine to a complete system to address the needs of massively distributed applications.

Other responsibilities included strategic and technical direction, team management and growth, patent coordination, contract negotiation, presentations to investors and partners, and authoring of white papers.

International Lisp Associates (ILA)

Cambridge, MA

[1986 to 1988] Principal and co-founder of ILA, a consortium of Lisp software engineers. Projects included an image processing software testbed and a symbolic mathematics package.

Symbolics

Cambridge, MA

[1981 to 1985] Member of the technical staff. Member of the team that developed and expanded the Symbolics Lisp software environment. Personal responsibilities included the *Command Processor* (a user-friendly front-end to the Lisp Machine), major components of the Window System, embedded-language and parser technology, and a spreadsheet program based on constraint-propagation.

MIT Laboratory for Computer Science

Cambridge, MA

[1980 to 1981] Student research staff. Designed and implemented a window display package and interface to an experimental implementation of the TCP/IP network protocol suite that allowed Xerox Alto personal workstations to act as powerful terminals to computers on the Arpanet and MIT local networks.

Degel Client Successes

David Goldfarb, with the help of his Degel teams, has created successes stories for many clients. A few such stories are listed here; many more can be found at <http://www.degel.com/client.html>.

Orange Imagineering (Orange UK)

Cambridge MA (USA)

[2003 to 2005] Developed Push-to-Talk client for current-generation handsets. Worked with Nokia staff, pushing the limits of the possible.

Sun Israel

Herzliya (Israel)

[2001] Ported the Java J2ME and graphics subsystem to several handheld devices; doubled performance of the MIDP graphics reference implementation; and created a platform-independent graphics substrate.

AOL – ICQ Mobile

Tel Aviv (Israel)

[2001 to 2003] Created ICQ instant-messaging clients for a variety of handheld devices and mobile phones running J2ME and the Symbian operating system. Later, converted these applications to support AOL's AIM instant-messaging, replacing AOL's unsuccessful internal attempt to create these clients.

Intel Israel (DSPC)

Tel Aviv (Israel)

[2001] Conducted cost/benefit analysis of porting a large Windows application to wireless platforms.

Vringo

New York (USA), Beit Shemesh (Israel)

[2006 to 2012] Brought over Degel's core engineering to kickstart an idea into this successful startup. Created initial prototypes and hired new talent to rapidly grow Vringo from the core Degel team into a much larger company. I continued as CTO of Vringo through their successful IPO in 2010, and later, through Degel, assisted in their merger search and continued growth.

Basis Technology

Boston MA (USA)

[1992 to 1996, 2015-2016] Worked with this language-technologies firm on many projects, both for their in-house use and for their clients. Major projects included:

- ❖ Developed and guided a suite of demo applications highlighting the Rosette multi-lingual text analytics library.
- ❖ For Pacifitech of Kamakura, Japan. Designed and prototyped a system for semi-automatic localization of Microsoft Windows software via runtime translation of user-interface strings. The techniques used worked on 3rd-party programs for which no source code was available.
- ❖ For Language Engineering Corp. of Belmont, MA. Ported a shrink-wrapp English to Japanese machine translation system from UNIX Motif to Japanese and USA Microsoft Windows.
- ❖ For Electronic Book Technology (EBT) of Providence RI. Produced a series of tools to parse Japanese text into its constituent words.
- ❖ For Cognex of Needham, MA. Wrote a software tool to meter the execution speed of Visual Basic programs and a tool for the generalized management of multi-lingual string resources for use in Visual Basic and C++ programs.

Baysoft

Cambridge MA (USA) and Tokyo (Japan)

[1989 to 1990] Implemented portions of an OS/2-based Paint/Draw program for Nippon Telegraph and Telephone (NTT), as well as an MS-DOS Windows based Options Trading training system and an Excel-based front-end for a networked client-server stock analysis program for a Tokyo financial firm.

Cape Systems

Ness Ziona (Israel)

[1988 to 1989] Responsible for system optimization and integration as well as development of an inference engine for an expert-system back-end diagnosing hybrid circuits.

Electric Pocket

Monmouthshire (UK)

[2002 to 2003] Implemented a Symbian version of Electric Pocket's popular Palm OS BugMe! application. Steered both the technical and the design process to integrate the spirit of the Palm version and rich multimedia features of Symbian OS. Our work won Handango's 2003 Champion Award for best Symbian Productivity Application, and became the subject of a Forum Nokia case study.

GEO Interactive

Givataim (Israel)

[1996] Enhanced GEO's Emblaze engine. Directly responsible for optimizing Emblaze to make it fast enough to be a useful product, and lead to the publicly traded Emblaze Corporation.

Iambic

Sunnyvale CA (USA)

[2003 to 2005] Ported Iambic's Agendus Palm contact manager to Symbian OS UIQ. Our work for Iambic earned them a position as Handango 2004 Champion Finalist.

HBOC Pegasus Medical Systems

Jerusalem (Israel)

[1993 to 1995] Championed and spearheaded a rewrite of the company's software, directly leading to the timely completion of the SMR product and eventual purchase of Pegasus by HBOC Medical.

Responsible for the imaging component of a Windows-based Medical Information Management System and for the design and implementation of in-house software development tools and components, including several Windows DLL and VBX modules. Also served as a technical resource for the company's programming staff, responsible for explaining development techniques as well as gathering relevant technical news and presenting it to the rest of the company.

iSkoot

Beit Shemesh (Israel)

[2005] Developed mobile code for iSkoot's initial mobile Skype product, which became the product line that led to the company's eventual acquisition by Qualcomm.

MBT—Israel Aircraft Industries

Yehud (Israel)

[1986 to 1992] Consultant. Responsibilities included the design and implementation of an image-processing and object-recognition software toolkit implemented on Symbolics Lisp Machines, software guidance of projects and prototypes produced on Symbolics and Texas Instruments Lisp Machines, and optimization of existing software systems. Sole designer and implementer of a Common Lisp implementation running under the OS/2 and iRMX operating systems and a toolkit to port Lisp Machine programs to these environments. Worked at MBT both as a direct consultant (1989–1992) and as an employee of Decision Systems Israel (1986–1989).

National University of Singapore

Singapore

[2012 to 2014] Designed and implemented a Clojure-based system to test and demonstrate biological computations using the chromatin markings of cellular DNA and histones.

Q Multimedia

Or Yehuda (Israel)

[1995 to 1996] Developed VBX controls and Windows extensions to enhance Q's line of multimedia applications. Enabled Q's VB-centric technical staff to create applications that would have been impossible.

Patents and Publications

Issued patents:

- ❖ US 8,626,830: *Media Content at the End of a Communication*
- ❖ US 7,877,746: *Personalized Installation Files*
- ❖ US 7,761,816: *Personalization Content Sharing System and Method*
- ❖ US 5,984,786: *Run-time environment for simulations and games*

Other significant patent applications:

2012/0071142, 2011/0183724: *Generation of Video Clips and Multi Media Ringtones from a Friend's Recent Social Data*; 2009/0005122 *Advertisement-based Dialing*; 2008/0222625 *Smart Contact List*; 2008/0162650 *User-Chosen Media Content*; 2008/0064378 *Media Playing on Another Device*; 2008/0016577 *System and Method for Digital Rights Management*; 2008/0014911 *Group Sharing of Media Content*; 2008/0010297 *Web-based Dialing*; 2007/0192428 *Media Content at the End of a Communication*; 2002/0040479 *Method and apparatus for streaming content via a network*

Publications:

Long-time reviewer for Computing Reviews of the Association for Computing Machinery (ACM), with over 40 published reviews. Selected as featured reviewer of the month, January 2016 http://www.computingreviews.com/todaysissue/todaysissue_featured.cfm?reviewer_id=114878.

Education

MIT - Massachusetts Institute of Technology

Cambridge, MA

Bachelor of Science, Computer Science and Engineering, 1984.

Personal

Born in the United States. Moved to Israel, 1985. Dual US/Israeli citizenship. Married+2.

Member ACM and IEEE Computer Society since 1982.