

Costa Shapiro

is engineering software since the early 90's:

- Lifelong passion → learning and exploration
- Academic background → research and development
- Rich experience → intuition and pragmatism
- Product vision → business and strategy
- Process specialty → mentoring and leadership

Synopsis

- The first **own paid** project while still in high school (an educational robot program in the Technion CPLT)
- A total of 10 years of **formal** computer education – from the high school up to the graduate school
- Part-time/full-time, office/remote, hourly/salary, team member/coordinator/leader, hands-on/consulting/supervising, open-source/know-how, all project scales + all company sizes, many areas of SW and HW – **done** and might be interested in still
- With the **web** since its beginning to the present day – from the bottom up
- Interested in developing **new** technologies/applications per specific business requirements in the agile way
- Also available for consulting on anything full-stack, from architecture – through 3rd party technologies – to UX

Currently Relevant Technologies

Ruby world – my current general-purpose/business-logic language of choice – and everything around it (including its awesome community)

Java world – the language of my Master work – and the gateway into the mighty JVM with everything around it

ECMAScript (aka **JavaScript**) world – the web scripting language with everything around it (from **HTML5** APIs to bleeding-edge frameworks) – which is also good for some microservices

SQL world – still the default DBMS model/language – with its continually advancing technologies and tools

NoSQL world – notably including search and pub/sub systems – good for optimising data access ad hoc

Docker and friends (SW packaging/deployment), FFmpeg and friends (**A/V** processing), various **RFCs**-based technologies, **Git** and friends, Python etc

Historical Experienced Technologies

C/C++ world – Boost, Tuxedo, MFC, OWL, VxWorks, Tornado, ACE, Turbo Vision

bash, ksh, PHP, Perl, Tcl/Tk, Visual Basic, Pascal, COBOL

MS Access, Paradox/BDE, dBase, Clipper

CORBA, DCOM/ActiveX

Various Apache Jakarta technologies, JavaCC

Win32 userland, FreeBSD-based internet server setup, DOS

Studies

- 1999-2003 [Technion \(CSD\)](#) - M.Sc. in Computer Science (cum laude)
 [“Object-Oriented Implementation of Reconciliations”](#) (Reconciliations in Java) thesis
- 1995-1998 [Technion \(CSD\)](#) - B.A. in Computer Science (cum laude)
- 1991-1994 [BOSMAT](#) (Automatic Data Processing course) - Speciality Matriculation Certificate

Jobs

- 2016-2016 Core Developer at [Peer5](#) (core product team)
 Web (client-side) video P2P delivery plug-in system maintenance
 Trying to stabilise and extend the niche product technology
 - Docker (and friends), nodeJS, HTML5 APIs, web video players APIs
- 2016-2016 Lead Developer at [Codefresh](#) (core product team)
 Docker-based full (push-build-test-promote-launch) containerisation workflow as-a-service maintenance
 Development of an RSpec-based Docker composition testing framework
 - Docker (and friends), nodeJS, Ruby
- 2015-2016 Software Architect at [Showbox](#) (video processing and data management back-end system)
 video editing and delivery workflow back end ownership, video montage engine development
 - Ruby on Rails, FFmpeg and friends, Redis, multi-process multi-service high-speed processing architecture
- 2011-2014 Project Lead, Core Developer and Consultant at [Astrails](#) (various web/mobile app projects)
 technology expertise, architecture and interface design, wireframing, prototyping, requirements specification, production implementation, engineering support and management of web+mobile app projects
 - Ruby on Rails, Backbone+Marionette, nodeJS, RSpec, and a great deal of other contemporary client- and server- side technologies
- 2010-present Developing and participating in a number of independent/open-source projects
 - Ruby on Rails, JavaScript, Sinatra, RSpec, Cucumber, etc

- 2009-2010** Senior Software Engineer at [RSA](#) (Verified by Visa / MasterCard SecureCode project, Herzliya)
- production and development maintenance of the technologically complicated SAAS product family
 - Java EE, C++/Boost/Tuxedo, ORACLE SQL, Python, bash, ksh, Tcl/Tk & other scripting
- 2007-2009** Senior Software Engineer at [Nielsen Online](#) (projects on interactive distributed systems for large-volume text-mining analysis, Herzliya)
- full ownership of the company's core Consumer-Generated Media analysis project
 - solving stability, maintainance and performance issues on component and system levels
 - Java EE & Apache Jakarta technologies (notably incl. Lucene), C++/Boost, SQL & custom DBMS's, XML processing, standard & custom client-server transports, bash & other scripting
- 2005-2007** Technological Leader and Founder at a personal information management web service start-up project
- technology development (interface definitions, system architecture, algorithm and database design, etc)
 - start-up company related activities
 - front-end web technologies, PHP5, Java EE & Apache Jakarta technologies, JDBC, PostgreSQL, FreeBSD, common internet server software
- 2002-2004** Senior Software Engineer at [Intel](#) (pre-silicon VLSI power estimation tool project, integrated VLSI CAD system, CAD Dept., Haifa)
- VLSI technology domain experience (including system input/output specifications and real-data analysis)
 - subsystem architecture development
 - internal customer engineering support (VLSI projects)
 - cross-project coordination and developemnt
 - C++, VLSI knowledge, internal infrastructure framework, Tcl/Tk, Perl
- 2000-2002** Software / Integration Engineer at [QUALCOMM](#) (several cellular communication related software-hardware projects, Haifa)
- CDMA technology domain experience (both parties plus simulation/testing)
 - full-circle development of a hardware driver framework and applications
 - development, maintenance and refactoring of a distributed testing/simulation infrastructure
 - cell-phone system integration (including development of mid-layer embedded communication software)
 - RT/Embedded systems, VxWorks, Tornado, CORBA, Visual C++, ARM, proprietary DSP, hardware-level protocols (cPCI, flash memory, etc), Win32, Perl

- 1999-2000** Software Developer (part-time) at [Extent](#) (former, now owned by [Alepo](#)) (Billing & Mgmt. RADIUS ISP web-managed server project, Ramat Gan)
development of custom management and report software modules
- cross-platform C++, SQL (various DBMS's), Apache HTTP server, proprietary front-end template framework
- 1998-1999** Teaching Assistant at [Technion](#) (basic CS courses, [CSD](#), [CEESD](#), Haifa)
- 1997-1998** Software Developer (part-time) at [NetManage](#) (several internet client projects, Haifa)
common internet protocols experience (email, ftp, telnet, etc)
client software module development (including GUI components)
infrastructure works
- Visual C++, MFC, DCOM/ActiveX, range of internet protocols, Win32, other application technologies
- 1995-1997** Software Developer (part-time) at the [the Technion's Asher Space Research Institute](#) (TechSat microsatellite project, Haifa)
design and implementation of complex physical algorithm modules
implementation of telemetry-processing modules (including database design and usage)
implementation and integration hardware driver modules (GPS, etc)
- C/C++, x86 assembly, Visual Basic, Paradox/BDE, various hardware interface protocols, Win32 (including GUI)
- 1992-1993** Software Developer (part-time) at [the Technion's Center for Promotion of Learning and Teaching](#) (A project of robotic manipulator based educational aid for spatial reasoning development course, Haifa)
design and implementation of robotic manipulator software (including GUI, command language, robot control and simulation)
- Pascal, Turbo Vision, x86 assembly, proprietary robot interface protocol, DOS

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