

Costa Shapiro

a **software developer** who started programming computers long before being graduated M.Sc. from Technion and now has an over-20-years-long record in the industry — initiated, owned and participated in projects of various scales, domains, platforms and development methodologies.

I strive to give any engineering problem a proper definition, and then an efficient solution (while the efficiency is measured considering a wider set of requirements, constraints and real business needs). I am fluent with open source, standards, community, and have a pragmatic vision of IT systems.

Languages and Development Technologies

Ruby (current language of choice) – Rails, Merb, Sinatra and a *lot* of friends

Java – EE technologies, AspectJ, Jini

C/C++ – Boost, MFC, OWL, ACE, Turbo Vision

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

Database Management Systems and Other Software Technologies

SQL – MS Server, ORACLE, PostgreSQL, MySql, ODBC, JDBC

MS Access, Paradox/BDE, dBase, Clipper

Web technologies – REST, SOAP, XPath, XSLT, AJAX

CORBA, DCOM/ActiveX

Various Apache Jakarta technologies, JavaCC

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

2011–2014

Software Engineer, Project Lead and Consultant at [Astrails](#) (various web 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, Javascript, nodeJS, RSpec, and a great deal of other contemporary client- and server- side technologies

2010–2011

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, 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 (inc. Lucene), C++/Boost, SQL & custom DBMS's, XML processing, standard & custom client-server transports, bash & other scripting

2005–2007

Technological Leader and Founder at an 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 development

– 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 [Asher Space Research Institute](#), [Technion](#) (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 [Technion's Center for Promotion of 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

December 2014