Curriculum Vitae

Costa Shapiro

A software engineering professional (M.Sc. in CS) with over 10 years of industry experience in various areas.

Contact

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Personal

Birth	4.10.1975 in the USSR (former)
Citizen	Israel

Skills

Positions and Responsibilities

Senior / Integration / Infrastructure Engineer

- design, implementation and maintenance of complex software / software-hardware systems (including real-time/embedded)
- development of fundamental software/networking product technologies (including those of internal testing/design systems)
- software/hardware system analysis
- subsytem coordination from interface definition to integration testing

Individually Contributing / Team Working Engineer

- full-circle development of hardware management systems, database applications, algoritmic modules and other software components
- functional design and implementation of user interfaces (including web-based)

Languages and Development Technologies

- C/C++ – MFC, OWL, ACE, Turbo Vision
- Java – EE technologies, AspectJ, Jini, etc.
- PHP, Perl, Tcl/Tk, JavaScript, Visual Basic, Pascal, COBOL, Smalltalk, etc.

Database Management Systems and Other Software Technologies

- SQL – ORACLE, PostgreSQL, MS Access, etc.
- ODBC, JDBC
- Paradox/BDE, dBase, Clipper, etc.
- Web technologies – SOAP, XSLT, etc.
- CORBA, DCOM/ActiveX
- Various Apache Jakarta technologies, JavaCC

Operating Systems and Networking

- Various internet protocols (HTTP, SMTP, IMAP, etc.)
- UNIX family (FreeBSD, Linux, HP-UX, etc.), Windows family, VxWorks, proprietary RT/Embedded systems, DOS

Hardware Programming and Protocols

- x86/Pentium family, ARM, DSP's
- PCI, flash memory, various hardware devices

Education

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

Experience

2005–2007   System Architect at independent web projects

     technology development (interface definitions, system architecture, algorithm and database design, etc.)

     – front-end web technologies, PHP5, Java EE technologies, 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

     independent software development and maintenance

     – 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 hardware driver framework development (complex communication interface device)

     distributed testing/simulation infrastructure development, maintenance and refactoring

     cell-phone system integration (including mid-layer embedded communication software development)

     – 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.)

various software development and maintenance tasks (including implementation of satellite management modules of several control levels)

– 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