

Sam Cohen
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Career Objective

A project that will allow me to pursue my interests and contribute at the same time . Some of my interests include Object-Oriented Design (especially RDD and Design Patterns), Smalltalk , Distributed Computing, and Web Development

Education

BSc. Computer Science, Jerusalem College of Technology (6/86), Magna Cum Laude. Graduate Level work and research in object-oriented technology.

Languages English, Dutch, French, German, Hebrew, Yiddish, Farsi, Spanish.

Honors

Was selected in nationwide competition as an ASU Industrial Fellowship program finalist by Honeywell IAC and Intel (1992).

Papers

Object Oriented Analysis: Building on the Structured Techniques by Steve Tockey, Brad Hoza and Sam Cohen, Boeing Computer Services, Seattle Washington, 1990.

Software Engineering notes of the ACM (April 1993). The Object Oriented Brewery A Comparison of Two Object Oriented Development methods by Robert C. Sharble and Samuel S. Cohen, Boeing Computer Services, Seattle Washington 1992.

Overview of C++ for C Programmers by Sam Cohen, Boeing Computer Services, Seattle Washington, 1994

Referenced by world renowned OOT expert Rebecca Wirfs Brock at http://www.wirfs-brock.com/how_designs_differ_article.htm

Work Experience

10/99 - 2/00 Designed, and developed a web site for a music band. Used a wysiwyg editor, graphics, and real media (RealPlayer). Lots of customer interaction. Researched web site storage options, and streaming media storage solutions. Converted CD tracks to digital RealPlayer files .

- Consulted on basic web page building concepts in a Macintosh environment.

The Dewey Corporation (7/98-12/98)

This is a personal family business that sells shower related products and croquet products. My assignment included bookkeeping, software evaluation, business modeling,

**11/86 - 5/97 Boeing Computer Services, Seattle Wa.
Software Engineer.**

Distributed Computing Consulting Group (8/96 - 5/97)

This group consults projects in Distributed Computing technologies and Middleware, Client Server Architectures, Web Technology and Object-Oriented Technologies (OOT).

- Involved in creating a web page that contains information on how to pursue OOT.
- Responsible for the maintenance of C/C++ libraries used company wide on multiple platforms. Those libraries provide manufacturing date and string manipulation routines.
- Participate in an OTS evaluation project (Object Transaction Services). Coordinate MQ-Series functionality as an XA resource. Got exposure to CORBA, and Orbix Programming (C++)

•Electrical Engineering Preferred Process Group (5/94 - 8/96)

The purpose of this project is to improve the current cycle time in which wire bundles and electrical systems are
11/15/00

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integrated into the airplane manufacturing process.

- Overall responsibility regarding Object-Oriented Methodology issues. Involved in Object-Oriented modeling of several areas in the wire bundle fabrication process. Assisted in the integration of various methodologies and models (P+, Objectory, Responsibility Driven Design (RDD), Business Process Modeling (BPM), and data driven OOA).
- Created a decision support prototype to elicit customer requirements (Smalltalk/Visualworks).

Software Engineering Support (6/90 - 5/94)

This group operates as a consulting group to other software projects. Its purpose is to assist in transferring software engineering practices (management and technical) to projects.

- Served as an OO expert on several projects. The tasks usually consisted of preparing OOA specifications, methodology assistance, CASE tool consulting, and sometimes design and implementation. The domains were Repository systems, Airplane Component Simulation, Control Tower to Airplane Communications, and Automated Publishing Systems.
- Assisted projects in software engineering practices such as PEP (Fagan inspections), SEI and PTO (SEI maturity levels and Project Tracking and Oversight).
- Research:
 - Technical paper and research document that summarizes the findings of research in complexity of object-oriented design methods.
 - Examined some of the issues regarding the usage of Petri Nets as complementary analysis to object-oriented analysis.
 - Participated in a study to unify different OO methods and wrote a technical company document summarizing the results.
- Participated in a management visibility effort to evaluate potential problems associated with converting a scientific FORTRAN application to C and its migration to another architecture.

•BOECOM (9/87 - 6/90)

This group supports and maintains a world wide message storage and retrieval system to support Boeing Field Service engineers.

- Was responsible for the maintenance of software that handled outgoing communications, as well as new software version releases (C, Unix, Oracle).
- Designed, coded, implemented, maintained, shipped and supported portions of PC software. Software and hardware installation and troubleshooting were also required (C, MS-DOS, Oracle, Lattice DBC).
- Was responsible for support and maintenance of preconversion message storage and retrieval system.

•End User Support Group for PC applications (11/86 - 9/87)

This group supports a variety of internally developed PC applications in a PC-host environment.

- Participated in a software evaluation effort of an MIS development package designed for fast development of MIS applications in a PC-host environment.
- Designed and coded an MIS system. System was used to display status information of various funds in graphical format.

7/84 - 6/86 JERUSALEM College of Technology, Jerusalem IL. Programmer/Instructor - Lab supervisor/Operator

- Designed and coded a keyboard emulator and BASIC tutorial for the handicapped.
- Instructed high school teachers in the following CS disciplines: Pascal, Probability & Statistics, Simulation,

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Automata & Formal Languages.

- Was responsible for the operation and system administration of PDP 11/34 computer lab.
- Participated in development of an SSPL compiler.

Specific Smalltalk exposure (about 1.5 yrs over the last 2-3 years)

• Education:

- ParcPlace Smalltalk Course (VisualWorks).
- OOPSLA tutorials; implementing custom graphics, and delivering smalltalk apps. in the real world.
- Semi regular reader of the Smalltalk Report
- Currently studying Design Patterns

• Work:

- Created a Change Management aid, which was a matrix of Skills Needed by Problem Size. It had a number of views (MVC)
- Reviewed a pathway routing prototype to give a complete overview to management of Methodology and Responsibility Driven Design.
- Wrote the infamous maze problem, and experimented with the graphics tree and OO recursion.
- Started to develop a framework for game programs that used 2D topologies.
- Currently involved in developing a calendaring system.

References available on request.

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PROFILE AT A GLANCE

EDUCATION	SPOKEN LANGUAGES	WORK EXPERIENCE
Graduate level work in Object-Oriented Technology Talmud background BSc. In Computer Science	English, Dutch, French, German, Hebrew, Yiddish, Farsi, Spanish	15 years in Software Development. Systems Analyst, Software Engineer, Programmer

SOFTWARE SKILLS /EXPOSURE		
ENVIRONMENTS <i>stand alone, client /server</i> Hardware OS - IBM PC MS-DOS - HP/Apollo Unix - Mac System 7.0 - IBM 3090 CTS - IBM RS6000 Unix - PDP 11/34 RSTS/E - VAX VMS SYSTEMS ANALYSIS - Object-Oriented Analysis (OOA) - DMR'S P+ - Structured Analysis - Development Lifecycles - Prototyping - Reverse Engineering - Information & Business Modeling PAPERS - Paper on complexity of different OO methods, published internationally. - Article and presentations on OOA - Article on C++	PROGRAMMING DOMAINS - Commercial - Database - Systems - Networking - Engineering & Scientific - Graphics - Real Time - Distributed Computing - Web Sites DESIGN - Object-Oriented Design (OOD) - Structured Design (SD) - Database - Web Design RESEARCH - Object-Oriented Technology CUSTOMER SUPPORT - Product Support and maintenance - Product Shipping	PROJECT MANAGEMENT - OOA Estimates - SEI Project Tracking & Oversight - Risk Assessments - Configuration Management - Project Planning CONSULTATION - OOA/D - Web design TESTING - Fagan Inspection (PEP) - White Box - Black Box PROGRAMMING LANGUAGES - C, C++ - Pascal - Ada - Basic - Assembly - Prolog - Smalltalk

OTHER / GENERAL SKILLS	
COMMUNICATION - Verbal/ Written - Presentations TRANSLATION, BOOKKEEPING ORGANIZATIONAL - Meeting Facilitation - Group Class Scheduling - Activity Status Tracking	TEAMING - Good team player - Easy to get along with WRITING/EDITORIAL - Technical Documents - Articles TEACHING - adults, teenagers, children

PERSONAL
- Transcendental Meditation - Tai Chi - Swimming - Photography - Chess - Hiking - Travel