

DAVID C. LEBERKNIGHT

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PROFESSIONAL SKILLS

- Software Project Management, Scrum Master, Architecture, Design, Programming, Teaching & Mentoring.

WORK EXPERIENCE

Software Federation, Inc. [SFI]

1997 – Present

Senior Partner & (sometimes) Treasurer (Boulder, Colorado)

- Consultant for numerous clients, described below ...

SFI Client - Xilinx Inc.

11/2006 – 2/2007

Consultant (Longmont, Colorado)

- Introduced VMware virtualization technology to Xilinx's Computer Farm Services group.

Latis Networks, Inc. (StillSecure)

5/2006 – 11/2006

Director of Product Engineering (Superior, Colorado)

- Led the software engineering and project management for Cobia, a modular web application for configuring and running network infrastructure (Java EE 5, Linux, Ajax).

Sabbatical – World Tour

(on and off) 2003 – 2008

- Refer to my blog: <http://leberknight.com/worldtour>

SFI Client - National Center for Atmospheric Research

1997 – 2003

Consultant (Boulder, Colorado)

- Recipient of NCAR / UCAR's 2001 *Outstanding Accomplishment Award* for “Scientific & Technical Advancement” - for the very successful 4DWX project (described next).
- (2001 – 2003) Software Engineering Lead for the Four Dimensional Weather Engineering Group (4DWX). We built a comprehensive suite of state-of-the-art tools for meteorologists.
- (1998) Primary consultant for an enterprise-wide business process re-engineering effort.
- (1997 – 2001) Instructor for various mini-courses in *Object-Oriented Design & Java*.
- (1997) Invited lecturer on *Commercial Middleware* for a Workshop on IT Strategy.

University of Colorado (CU)

1999 – 2002

Department of Computer Science – Faculty - Lecturer (Boulder, Colorado)

- Instructor & course author for CSCI 4448: *Object-Oriented Programming & Design*.
- Course notes (PDF files): <http://www.gui.net/cs4448.html>
- Topics include: OO analysis & design, UML modeling, design patterns, Java & C++, databases, XML, J2EE, distributed architecture, agile / scrum project management.

SFI Client - Interactive Gaming & Wagering N.V.

1999 – 2000

Consultant (Willemstad, Curacao, N. A.)

- Designed & implemented Java applets (as well as the corresponding server-side infrastructure) that play casino games for real money (Java, SQL Server, Windows NT).

SFI Client - Level (3) Communications, Inc. **1998 – 1999**

Consultant (Broomfield, Colorado)

- Developed a “universal inventory database” (Java, CORBA, Vitria, UNIX, Oracle).

SFI Client - Avitek Inc. **1998**

Consultant (Boulder, Colorado)

- Development of a 3-tier middleware application (Java, WebLogic, TOPLink, Oracle).

SFI Client - Janus International Holding Co. **1998**

Consultant (Denver, Colorado)

- Responsible for training & mentoring Janus’ IT staff in Object Technology & Project Management by teaching classes & working on several projects (Java, C++).

SFI Client - Lucent Technologies **1997 – 1998**

Consultant (Boulder, Colorado)

- Redesigned & implemented the manual router for the FPGA CAD editor (C++, UNIX).

SFI Client - DirecTouch, Inc. **1997**

Consultant (Broomfield, Colorado)

- Designed the start-up company’s software solution (Java, Gemstone/J).

University of Colorado (CU) **1997 – 1998**

Division of Continuing Education - Instructor (Boulder, Colorado)

- Instructor for the **Intermediate & Advanced C++ Programming** courses.
- Instructor for the **Object-Oriented Design Patterns** course.

Storage Technology Corp. (StorageTek) **1997**

Consultant (Louisville, Colorado)

- Implemented a new user interface for a marketing tool (C++, Windows & Macintosh).

Bolder Heuristics, Inc. (BHI) **1993 – 1996**

Senior Engineer (Boulder, Colorado)

- Client: Storage Technology Corp. (StorageTek) : Architecture consultant for a large strategic software project. Taught classes in object-oriented & relational database design.
- Client: Health Decisions LLC. : Responsible for all aspects of database development for 7x24 health care call center, including: requirements gathering, software design, data modeling, administration (as the DBA), performance tuning, & writing SQL stored procedures (SYBASE).
- Client: USWest : Responsible for the interface between the Knowledge Base & Corporate Database Groups, including the supervision of other contractors (C++, Prolog).
- Client: MIS : As Data Layer Team Lead, designed an OO framework (C++, Windows).
- Client: Itron : Designed and implemented an OO architectural framework (C++, UNIX).

NeoCAD, Inc. (now Xilinx, Inc.) **1992**

Consultant (Boulder, Colorado)

- Used fuzzy logic to optimize NeoCAD's FPGA CAD "partitioner" (C++, UNIX).

Carnegie Mellon University (CMU) **1990 - 1992**

CLARIT Project (as CMU graduate student) (Pittsburgh, Pennsylvania)

- Wrote Lisp for doing linguistic analysis of text to determine the concepts expressed within.

Japan Marketing Data Systems, Inc. **1990**

Consultant (Tokyo, Japan)

- Wrote C utilities to convert between various Japanese kanji (multi-byte character) formats.

Daisy/Cadnetix, Inc. **1987 - 1989**

Software Engineer (Boulder, Colorado)

- Developed the printed circuit board CAD router (C, C++, Pascal, UNIX, microcode).

Gould Electronix, Inc. **Summers of 1985, 1986**

Engineering Co-op (as Cornell undergraduate) (Cleveland, Ohio)

- Various small projects (Fortran, UNIX, Mentor Graphics CAE circuit simulations).

Fabri-Centers of America, Inc. **Winter Break 1983, Summer 1984**

The company's only programmer (as Cornell freshman) (Cleveland, Ohio)

- Designed & implemented software for a shipping & receiving office (Dbase II, DOS).

EDUCATION

M.S. in Computational Linguistics, Carnegie Mellon University **1992**

- Artificial Intelligence & Linguistics, applied to machine understanding of natural languages.

B.S. in Electrical Engineering, Cornell University "With Distinction" **1987**

- Graduate-level work in computer architectures and semiconductor (quantum) physics.

The Mercersburg Academy (High School) "Cum Laude" & "High Honors" **1983**

- Began programming TRS-80 BASIC in 1980.
- Won prizes in Mathematics and Spanish.

NATURAL LANGUAGES

English - Native.

Portuguese - Fluent (Brazilian wife plus extensive travel, with translation experience).

Spanish - Fluent (extensive studies plus extensive travel).

French - Conversational (some classes plus some travel).

Japanese - Basics (studies and travel, but a long time ago).