

DAVID C. LEBERKNIGHT

DavidLeberknight@Gmail.Com

PROFESSIONAL SKILLS

- User interface and web site design
- Agile software project management
- Business strategy, technology savvy
- Broad experience as a software designer
- Experience as a top-level corporate officer
- Fluent in English, Spanish, and Portuguese
- UML modeling and business analysis skills
- Deep understanding of networks and security
- Database design and technology (once a DBA)
- Training and mentoring in diverse technologies
- Expert in Java and C++ (used to teach them both)
- Computers, from BASIC to enterprise architecture
- Authored a university course in Object-Oriented Design

WORK EXPERIENCE

Solnet Solutions Ltd.

5/2010 - Present

Consultant (Wellington, New Zealand)

- Solution architect for new enterprise infrastructure plus a B2B interface, with IBM WebSphere and Oracle components (SOAP, WS-Security, ESB, EJB3).

Jade Software Corporation Ltd.

8/2008 – 9/2009

Delivery Manager New Zealand (Christchurch, New Zealand)

- David managed teams for Jade Investigator, Air New Zealand, Fonterra, The Warehouse, and the Jade Student Management System. He was also Scrum-master and project board member (ala Prince2) for Methodware's web2 Enterprise Risk Assessor product.
- David consulted for Arc Innovations (Meridian Energy) on the Advanced Metering Infrastructure programme to review their solution architecture, teach Java, and coordinate several Scrum teams (Spring framework, IBM MQ).

Sabbatical – World Tour

International holidays

- David's blog and photos chronicle “the scenic route” he took to emigrate from the USA to New Zealand: www.LEBERKNIGHT.com/worldtour

Software Federation, Inc. [SFI]

1997 – Present (currently inactive)

Co-Founder, Senior Partner, and Treasurer (Boulder, Colorado)

- Sales and marketing as needed (including contract negotiations), but mostly hands-on consulting for clients, described below as **SFI Client**.

SFI Client - Xilinx, Inc.

11/2006 – 2/2007

Consultant (Longmont, Colorado)

- David introduced VMware virtualization technology to Xilinx's Computer Farm Services group (network and system administration with Solaris).

Latis Networks, Inc. (StillSecure)

5/2006 - 11/2006

Director of Product Engineering (Superior, Colorado)

- Project manager for the Cobia Unified Network Platform, a product designed to integrate open-source network / security modules with a web2 user interface (router, firewall, DNS, DHCP, with more modules planned). David brainstormed requirements with stakeholders to define the product, recruited team members, designed the system architecture, planned release schedules, led the development team, and coded core infrastructure. (Java EE 5, Hibernate, JBoss, JSF, Linux, Ajax, VMware, PostgreSQL, Eclipse, SVN, Ant, Python).

SFI Client - National Center for Atmospheric Research (NCAR)

2/1997 – 7/2003

Consultant (Boulder, Colorado)

- (2001 – 2003) Recipient of NCAR / UCAR's **Outstanding Accomplishment Award for Scientific & Technical Advancement** - for the Four-Dimensional-Weather-Engineering project (4DWX), a comprehensive suite of state-of-the-art tools for meteorologists. As the software engineering lead, David redesigned the system to make it scalable and modular, refactoring a number of applications (Java, eXtreme Programming). Lots of mentoring! David reused his own Custom Query Tool for clients to interrogate the MySQL database. He also gave technical presentations to important non-technical people.
- (1997 – 2001) Designed and delivered courses in **Object-Oriented Design** and **Java**.
- (1998) Primary consultant for an enterprise-wide business-process re-engineering effort, creating UML analysis models that were used to identify operational inefficiencies.
- (1997) Invited lecturer on **Commercial Middleware** for a Workshop on IT Strategy.

University of Colorado (CU - Boulder)

Department of Computer Science - Faculty - Lecturer

1/1999 – 5/2002

Division of Continuing Education - Instructor

2/1997 – 12/1998

- Course author for CSCI 4448: **Object-Oriented Programming and Design**.
Topics: object-oriented analysis, design, and design patterns, the Java programming language, the Unified Modeling Language (UML), XML, concurrency, user interfaces, distributed architectures, databases, (Enterprise) Java Beans, and (agile) project management. Lecture notes are available as PDF files: www.GUI.net/cs4448.html
- Guest lectures for ECEN 5053: **Software Engineering of Distributed Systems**.
- Instructor for **Intermediate C++ Programming**.
- Instructor for **Advanced C++ Programming**.
- Instructor for **Object-Oriented Design Patterns**.

SFI Client - Interactive Gaming and Wagering N.V.

4/1999 – 12/2000

Consultant (Willemstad, Curacao, N. A.)

- Working from home, David designed applets (and server-side infrastructure) to play casino games for real money. He implemented the direct-manipulation, graphical user interfaces in Java 1.02 for browser compatibility, like the Chaos Applet (www.GUI.net/chaos.html) with spinning wheels, rolling dice, and drag-and-drop chips for betting. He worked from Curacao briefly to advise on deployment issues, and to scuba dive :-)

SFI Client - Level (3) Communications, Inc. **12/1998 – 3/1999**
Consultant (Broomfield, Colorado)

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

SFI Client - Avitek Inc. **9-10/1998**
Consultant (Boulder, Colorado)

- Developed middleware for a 3-tier application (WebLogic, TOPLink, Oracle).

SFI Client - Janus International Holding Co. **3-11/1998**
Consultant (Denver, Colorado)

- Responsible for training and mentoring Janus’ IT staff in object technology and (agile) project management by teaching classes and working on several projects (Java, C++).

SFI Client - Lucent Technologies **10/1997 – 2/1998**
Consultant (Boulder, Colorado)

- Redesigned and implemented the manual router for Lucent’s FPGA CAD editor (C++).

SFI Client - DirecTouch, Inc. **5-8/1997**
Consultant (Broomfield, Colorado)

- David analyzed the start-up company's product idea and helped design a solution; he also planned staffing & scheduling with the company's CEO.

Storage Technology Corp. (StorageTek) **2-5/1997**
Consultant (Louisville, Colorado)

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

Bolder Heuristics, Inc. (BHI) **7/1993 – 12/1996**
Senior Engineer (Boulder, Colorado)

- **BHI Client:** Storage Technology Corp. (StorageTek) : Architecture consultant for a large software project. Taught classes in object orientation and relational-database design.
- **BHI Client:** Health Decisions LLC. : David was 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, and writing SQL stored procedures. He also managed the Data Load sub-project (Visual C++) while teaching nurses how to query the data warehouse in SQL. David sat 3 five-day courses in SYBASE database administration.
- **BHI Client:** USWest : Responsible for the interface between the knowledge base and corporate database groups, including the supervision of other contractors (C++, Prolog).
- **BHI Client:** MIS, Inc. : Designed a framework including Bob, the crucial component that managed object lifecycles and controlled transactions (C++, Windows). This was David's first project implemented with rigorous unit testing.
- **BHI Client:** Itron, Inc. : Designed and implemented an OO architecture (C++, UNIX).

NeoCAD, Inc. (now Xilinx, Inc.) **6-9/1992**
Consultant (Boulder, Colorado)

- Used fuzzy logic to optimize NeoCAD’s FPGA CAD “partitioner” (C++, UNIX).

Carnegie Mellon University (CMU) **10/1990 - 5/1992**
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. **7-8/1990**
Consultant (Tokyo, Japan)

- Wrote C utilities to convert between Japanese multi-byte character formats.

Daisy/Cadnetix, Inc. **8/1987 - 12/1989**
Software Engineer (Boulder, Colorado)

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

Gould Electronix, Inc. **5-8/1985, 5-8/1986**
Engineering Co-op (as Cornell undergraduate) (Cleveland, Ohio)

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

Fabri-Centers of America, Inc. **12/1983, 5-8/1984**
The company's only programmer (as Cornell freshman) (Cleveland, Ohio)

- David began his career by designing and implementing a system to automate a warehouse shipping office (a successful solo effort in DBASE II and DOS on an IBM PC).

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).

EDUCATION

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

- Artificial Intelligence applied to machine understanding of natural languages.

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

- Graduate-level work in computer hardware architectures and quantum physics.

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

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