

David Charles Leberknight

EXPERIENCE

- Computer Science
- Project Management
- Software Development
- Enterprise Architecture / SOA
- Database Design and Technology
- Business / Corporate Negotiations
- Network Infrastructure and Security
- Certified Scrum Master / Agile Coach
- Website Design / Application Security
- UML Modeling and Business Analysis
- Presentations, Training, and Mentoring
- Fluent in English, Spanish, and Portuguese
- Course Author: Object-Oriented Programming and Design (with Java)

PROFESSIONAL WORK

Solnet Solutions Ltd. / Wellington, New Zealand

5/2010 - Present

Senior Consultant

- Contact: **DavidLeberknight@gmail.com**
- David is currently consulting for **Inland Revenue** as a Solution Architect.
- For the **Accident Compensation Corporation (ACC)**, David designed the Web Service known as the eGateway, allowing health-care providers to submit forms over a secure channel. The solution uses SOAP, an EJB3 application, an Oracle database, a Citrix NetScaler, an ESB (using IBM WebSphere), an LDAP component, a message queue, and more. David led the development team. David was also Solution Architect for ACC's Employer Search Service. Shortly after the delivery of these projects, Solnet Solutions won an ACC tender to officially become its "eChannel and Integration Services" supplier.

Jade Software Corporation Ltd. / Christchurch, New Zealand

8/2008 – 9/2009

Delivery Manager New Zealand

- David managed teams for Air New Zealand, Fonterra, the Warehouse, and others. He was a Prince2 project-board member and Scrum Master for Jade's Enterprise Risk Assessor product. And he consulted for Arc Innovations (Meridian Energy) on the Advanced Metering Infrastructure program, reviewing the solution architecture, teaching Java, and coordinating agile development teams.

Sabbatical / the big move to New Zealand

- David's **World Tour** blog: www.Leberknight.com/worldtour

Software Federation, Inc. [SFI] / USA clients

5/1997 – Present

Co-Founder / Principal Partner / Consultant

- Sales, including contract negotiations, but mostly hands-on consulting for clients.
- Managed the corporate budget, taxes, and payroll.

SFI Client: Xilinx, Inc. / Colorado, USA **11/2006 – 2/2007**

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

Latis Networks, Inc. (StillSecure) / Colorado, USA **5/2006 - 11/2006**

Director of Product Engineering

- Project manager and technical lead for the Cobia Unified Network Platform, designed to integrate open-source components with a great browser interface (DNS, DHCP, firewall, router). David brainstormed requirements, recruited team members, designed the software, led the agile team, and coded core infrastructure. (Java EE 5, Hibernate, JBoss, JSF, Linux, Ajax, VMware, PostgreSQL, Eclipse, SVN, Apache Ant, Python, Xorp).

SFI Client: National Center for Atmospheric Research (NCAR) **2/1997 – 7/2003**

- Recipient of NCAR / UCAR's 2001 *Outstanding Accomplishment Award* for *Scientific and Technical Advancement* - for the 4DWX project, a comprehensive suite of state-of-the-art tools for meteorologists. David redesigned the system to make it scalable and modular, refactoring some applications and inventing others (Java, Linux, eXtreme Programming). Lots of mentoring! He also gave presentations to non-technical audiences.
- (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 / Boulder

Department of Computer Science - Faculty

1/1999 – 5/2002

Division of Continuing Education

2/1997 – 12/1998

- Course author for CSCI 4448: *Object-Oriented Programming and Design*.
Topics include: Java, C++, object-oriented analysis, UML, design patterns, multi-threaded concurrency, XML, database design, distributed architecture, Enterprise Java Beans, and (agile) project management.
- Lecture notes (PDF files) and Java applets: www.GUI.net/cs4448.html
- Guest lectures for ECEN 5053: *Software Engineering of Distributed Systems*.
- Instructor for *Intermediate* and *Advanced C++ Programming*.
- Instructor for *Object-Oriented Design Patterns*.

SFI Client: Interactive Gaming and Wagering N.V. / Curacao, N.A. **4/99 – 12/2000**

- David designed Java applets (and server-side infrastructure) to play casino games for real money. He developed browser-based, direct-manipulation user interfaces with spinning wheels, rolling dice, and drag-and-drop chips for betting.

SFI Client: Level (3) Communications, Inc. / Colorado, USA **12/1998 – 3/1999**

- Development of a 'universal inventory database' (Java, CORBA, Oracle, Vitria, UNIX).

SFI Client: Avitek Inc. (acquired by BEA Systems) / Colorado, USA **9-10/1998**

- Middleware development for a call-center (Java, WebLogic, TOPLink, Oracle).

SFI Client: Janus International Holding Co. / Colorado, USA **3-11/1998**
• Training and mentoring in object technology and (agile) project management by teaching classes and working on several projects (Java, C++).

SFI Client: Lucent Technologies / Colorado, USA **10/1997 – 2/1998**
• Redesigned and implemented the manual router for Lucent's FPGA CAD editor (C++).

SFI Client: DirecTouch, Inc. / Colorado, USA **5-8/1997**
• Analyzed a product idea and designed the solution architecture (Java).

Storage Technology Corp. (StorageTek, now Oracle) / Colorado, USA **2-5/1997**
• Implemented a user interface for a marketing tool (C++, XVT, Windows and Macintosh).

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

BHI Client: Storage Technology Corp. (StorageTek, now Oracle) :

- Design consultant for a strategic software project.
- Taught classes in object orientation and relational-database design.

BHI Client: Health Decisions LLC. (7 x 24 call center) :

- Responsible for all aspects of database development, including: business requirements, system architecture, designing the object-oriented software, data modeling, implementation, documentation, deployment, database administration (as the DBA), loading legacy data, and performance tuning.
- David sat 3 five-day courses in SYBASE database administration.
- He taught nurses to query the data warehouse with SQL.

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 life cycles and controlled transactions (C++, Windows). This was David's first project implemented with rigorous unit testing.

BHI Client: Itron, Inc. :

- Designed and implemented an object-oriented framework (C++, UNIX).

NeoCAD, Inc. (acquired by Xilinx, Inc.) / Colorado, USA **6-9/1992**
Consultant

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

Carnegie Mellon University (CMU) / Pennsylvania, USA **10/1990 - 5/1992**
CLARIT Project (as CMU graduate student)

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

Japan Marketing Data Systems, Inc. / Tokyo, Japan **7-8/1990**
Consultant

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

Daisy/Cadnetix, Inc. / Colorado, USA **8/1987 - 12/1989**
Software Engineer

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

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

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

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

- 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).

WORLD TRAVEL

Alaska, Argentina, Australia, Austria, Belize, Bolivia, Brazil, Cambodia, Canada, Chile, China, Colombia, Costa Rica, Curacao, Czech Republic, Denmark, Ecuador, Egypt, El Salvador, England, Ethiopia, Fiji, France, French Polynesia, Germany, Guatemala, Hawaii, Holland, Honduras, Hong Kong, India, Indonesia, Israel, Italy, Jamaica, Japan, Jordan, Laos, Lesotho, Macao, Malawi, Malaysia, Mexico, Mozambique, Morocco, Nepal, New Zealand, Nicaragua, Palestine, Panama, Peru, Philippines, Portugal, Puerto Rico, Russia, Rwanda, South Africa, Spain, Swaziland, Switzerland, Tanzania, Thailand, Tonga, Trinidad and Tobago, USA, Vatican City, Venezuela, Vietnam, Yukon, Zanzibar.

NATURAL LANGUAGES

English - Native.

Portuguese - Fluent (Brazilian wife, with simultaneous translation experience).

Spanish - Fluent (extensive studies, extensive travel).

French - Conversational (some studies, some travel).

Japanese - Basics (some studies, some travel).

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.