

David Charles Leberknight

CURRICULUM VITAE

David is a technology generalist who enjoys deep dives into specialty areas. This allows him to communicate fluently with every project stakeholder in order to get stuff done, to solve problems efficiently for humans. David is also an intrepid world traveller and a published author. Currently on sabbatical.

WORK EXPERIENCE

Inland Revenue Department / Wellington, New Zealand **6/2012 – 12/2013**
Consulting Principal Enterprise Architect

- Principal "Solution Architect" for New Zealand's tax department.
- Responsible for delivering designs for active projects that align with business requirements and enterprise strategy.
- Member of the Enterprise Architecture Leadership Team.
- Matrix-managed up to 15 Enterprise Solution Architects.
- Co-chair of the Enterprise Architecture Council.
- Chair of fortnightly meetings with the Principal I.T. Consultants.
- De-facto Security Architect.
- Author of the Information Security Reference Architecture document.
- Member of the Student Loans Design Authority.
- Much more.

Solnet Solutions Ltd. / Wellington, New Zealand **5/2010 – 6/2012**
Senior Consultant

- For NZ's **Inland Revenue Department**, before transitioning to the Principal Architect role described above, David designed the system for taxpayers to opt-in for email notifications. This project delivered the strategic Party Management Application (including a domain model for Identity) plus a new Service-Oriented framework (using Oracle SOA middleware).
- For the **Accident Compensation Corporation (ACC)**, David designed the eGateway, a web service for health-care providers to submit forms over a secure channel. David led the development team (using SOAP, EJB3, a Citrix Netscaler, WebSphere ESB and MQ, plus an LDAP).
- David was also the Solution Architect for ACC's Employer Search Service (ESS).
- 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 / Christchurch, New Zealand **8/2008 – 9/2009**
Delivery Manager New Zealand

- David managed software development teams ala Prince2 for Jade customers such as Fonterra, Air New Zealand, the Warehouse, and the University of Canterbury.
- He was Scrum Master for Methodware's Enterprise Risk Assessor product.
- He also consulted for Arc Innovations (Meridian Energy) on the Advanced Metering Infrastructure program, teaching Java and coordinating agile teams.

Sabbatical / the big move to New Zealand

- Global travel with a backpack and an attitude.
- Check out David and Lili's world-travel blog: www.Leberknight.com/worldtour

Software Federation, Inc. [SFI] / USA clients... 5/1997 – 2007
Co-Founder & Principal Partner

- Sales and contract negotiations, but mostly hands-on consulting for **SFI** clients:

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. (Still Secure) / 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 TCP/IP components (DNS, DHCP, firewall, router) with a great browser user interface. David brainstormed requirements, recruited team members, designed the software, led the agile team, and coded core infrastructure (using Java EE, Hibernate, JBoss, JSF, Linux, Ajax, VMware, PostgreSQL, Eclipse, SVN, Apache Ant, Python, Xorp).

SFI Client: National Center for Atmospheric Research 1997 – 2003

- (2001-2003) Recipient of NCAR'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. As the Software Engineering lead, David redesigned the system to make it scalable and modular, refactoring some applications and inventing others (using Java, Linux, and eXtreme Programming). Lots of mentoring.
- (1997 – 2001) David delivered courses in Object-Oriented Design and Java.
- (1998) As the primary consultant for a business-process re-engineering effort, he created UML models that were used to identify operational inefficiencies.

University of Colorado / Boulder Campus

Department of Computer Science - Faculty

1/1999 – 5/2002

Division of Continuing Education - Lecturer

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, enterprise architecture, and (agile) project management. *Software Engineering in the wild*.
- Lecture notes are online (PDF files): www.GUI.net/cs4448.html
- Instructor for **Intermediate** and **Advanced C++ Programming**.
- Instructor for **Object-Oriented Design Patterns**.

SFI Client: Interactive Gaming & Wagering / Curacao 4/1999 – 12/2000

- Delivery of Java applets and server-side infrastructure to play casino games for real money. The direct-manipulation user interfaces had spinning wheels, rolling dice, and drag-and-drop chips for betting.
- For examples of Java graphics, check out: www.GUI.net/fractal.html

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

- Development of a 'universal inventory database' (using Java, CORBA, and Vitria).

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

- Middleware development for a call-center (using TOPLink and Oracle).

SFI Client: Janus International Holding Co. / Colorado 3-11/1998

- Training in object technology and (agile) project management by teaching classes and working on projects.

SFI Client: Lucent Technologies / Colorado 10/1997 – 2/1998

- Redesigned the manual router for Lucent's FPGA CAD editor (using C++).

SFI Client: DirecTouch, Inc. / Colorado 5-8/1997

- Analyzed a product idea and designed the solution architecture.

Storage Technology Corp. (StorageTek now Oracle) / Colorado 2-5/1997

- Implemented a user interface for a marketing tool (using C++).

Bolder Heuristics, Inc. (BHI) / Colorado 7/1993 – 12/1996

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

- 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, data modeling, 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 (using Prolog).

BHI Client: MIS, Inc. :

- Designed a C++ framework for managing distributed database transactions. This was David's first project implemented with rigorous unit testing.

BHI Client: Itron, Inc. :

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

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

- Used fuzzy logic to optimize NeoCAD's "partitioner" for Field Programmable Gate Arrays, for designs too large to fit on one FPGA chip (using C++).

Carnegie Mellon University (CMU) / Pennsylvania, USA 10/1990 - 5/1992

CLARIT Project (as CMU graduate student)

- Linguistic analysis of text to determine the concepts within (using LISP).

Japan Marketing Data Systems, Inc. / Tokyo, Japan 08/07/90

- Integrating Japanese language text into an English-based system (using C).

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

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

Gould Electronix, Inc. / Ohio, USA **5-8/1985, 5-8/1986**
Engineering Co-op (as Cornell undergraduate)
• Small projects (using Fortran, UNIX, and CAE circuit simulations).

Fabri-Centers of America, Inc. / Ohio, USA **12/1983, 5-8/1984**
• David began his career by 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, Belgium, Belize, Bolivia, Brazil, Cambodia, Canada, Chile, China, Colombia, Costa Rica, Curacao, Czech Republic, Denmark, Ecuador, Egypt, El Salvador, England, Estonia, Ethiopia, Fiji, France, French Polynesia, Germany, Greece, Guatemala, Hawaii, Holland, Honduras, Hong Kong, India, Indonesia, Israel, Italy, Jamaica, Japan, Jordan, Laos, Latvia, Lesotho, Lithuania, Macao, Malawi, Malaysia, Mexico, Mozambique, Morocco, Myanmar, Nagaland, Nepal, New Zealand, Nicaragua, Palestine, Panama, Paraguay, Peru, Philippines, Portugal, Puerto Rico, Russia, Rwanda, Singapore, South Africa, Spain, Sri Lanka, Swaziland, Sweden, Switzerland, Tanzania, Thailand, Timor Leste, Tonga, Trinidad and Tobago, Turkey, Uruguay, USA, Vatican City, Venezuela, Vietnam, Yukon, Zanzibar.

HUMAN LANGUAGES

English - Native.
Portuguese - Fluent, with Brazilian wife plus translation experience.
Spanish - Fluent, with extensive studies and extensive travel.
French - Basic conversation plus reading and film watching.
Japanese - Linguistic analysis plus basic conversation.

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) "High Honors" **1983**
• David began programming computers in 1980.

David is a published author too. ***Globalocity - the Adventures of Raymond*** is the ultimate backpacker's action novel about Earth and everything. Go around the world with an attitude. Go with Raymond. Download the e-book or purchase a print copy today (from Amazon). *Global velocity!*