

SCOTT LANGEVIN

CURRICULUM VITAE

PROFILE

My background is as a Software Engineer and Technologist, but my current focus has been on advancing my knowledge of Machine Reasoning, Multi-Agent Systems and the Semantic Web. I am focussed on pursuing a career in Industrial Research advancing the state of the art. I excel at rapidly learning new concepts, software design and development and have a passion for the computing field.

EMPLOYMENT HISTORY

RESEARCH ASSISTANT, BALER PROJECT - CENTER FOR INFORMATION TECHNOLOGY COLUMBIA, SC 2006-2008

The Bayesian and Logical Engine for Reasoning (BALER) combines facts and expert opinion in analytical models using logical and probabilistic reasoning. The goal is to build a system that merges logical and probabilistic methods for reasoning into a single integrated reasoning platform. This project was funded by the Disruptive Technology Office Collaboration and Analyst System Effectiveness (CASE) Program.

My role in the project was leading the software development, creating a Bayesian reasoning engine that supports soft evidence, integration using web services with other CASE research groups, as well as assisted with the creation of a natural deduction proof to Bayesian network converter.

INSTRUCTOR - INTRO TO INFORMATION TECHNOLOGY, UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SC 2006

This course involved teaching freshmen various entry level topics in information technology. I was responsible for lectures, lab instruction and grading.

RESEARCH ASSISTANT, ACTAR PROJECT - CENTER FOR INFORMATION TECHNOLOGY COLUMBIA, SC 2006

The Augmented Cultural Tactical Awareness and Response (ACTAR) is a mobile handheld system that provides tactical and cultural advice to warfighters. The system fuses built-in knowledge of social factors and location specific information with dynamically entered situation descriptions to produce an assessment of the situation and recommend actions.

My role in the project involved creation of a mapping engine for warfighters to enter location based information as well as display location information to the warfighter. I also created a reasoning engine for the system to provide situation assessments and recommended actions. The reasoning engine incorporated cultural information utilizing geolocational and temporally significant data.

LAB INSTRUCTOR - WEB PROGRAMMING, UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SC 2006

This lab involved teaching XHTML, CSS and javascript tutorials to freshmen. I was responsible for providing guidance completing lab assignments and grading.

SOFTWARE ENGINEER, IMPACT TECHNOLOGIES GROUP, INC. CHARLOTTE, NC 2004-2005

Impact Technologies is an industry leader in financial analysis and planning software. Impact excels at incorporating cutting edge technology into their products and focuses strongly on increasing productivity and ease to use.

While working at Impact Technologies I was an important member of the user interface team. My role was to research and incorporate latest technologies into Impacts financial planning suite PlanLab. During this position I architected several software frameworks to ease development and maintenance. Another

focus was to re-architect PlanLab into an extensible modular system. The highlight of this position was the development of a web-based dynamic data acquisition system designed to be a drop-in replacement for Microsoft InfoPath.

SYSTEMS CONSULTANT, WENCO SYSTEMS LTD. VICTORIA, BC 2001-2004

Wenco is a systems development and consulting organization, providing innovative and cost effective solutions. Their particular expertise is in project management, workflow and systems design and integration.

This position required me to work closely with project managers and IT departments to provide custom contract management software (PACT) to Wenco's clients. The development cycle of these custom solutions involved analyzing requirements and devising detailed specifications and designs. The development stage included creating database models, user interfaces, business logic and interfacing into existing third-party database applications. Installation required visits to the client's site and performing a database conversion routine from previous versions of PACT. In addition I was required to provide support to clients IT departments. In addition I was involved with re-designing Wenco's workflow systems as an integrated .NET web application. This new system centralized all the systems and can be easily customized with the added benefit of low deployment costs and increased usability.

CLIENTS

SYNCRUDE CANADA LTD., FORT MCMURRAY, AB

(The world's largest producer of crude oil from oil sands and the largest single source producer in Canada.)

- ★ Design and Architect next version of PACT as a web application in .NET
- ★ Replace existing work request and release systems and fully integrate with PACT
- ★ Designed a distributed object oriented framework for ease of system development by junior developers
- ★ Develop Technical Specifications and Requirements
- ★ Develop System Scope Documentation

OA SOLUTIONS, VICTORIA, BC

(An Information Management and Information Technology consulting company providing services to Federal, Provincial and Municipal government in Canada)

- ★ Performed several training sessions in ASP.NET to get OA Solutions development team up to speed.
- ★ Architected system design for the Health Cross Jurisdictional Database System (this system aids federal and provincial governments to project and track actual costs in the Health sector)
- ★ Provided development of core system
- ★ Provided development support to OA Solutions senior and junior developers

CENTRE FOR EDUCATION INFORMATION STANDARDS AND SERVICES (CEISS), VICTORIA, BC
(A Government of British Columbia organization providing programs and services regarding to education.)

- ★ Assisted development of the Student Outcomes Reporting System (SORS)
- ★ Developed web pages in ASP utilizing JavaScript for client side functionality
- ★ Developed Objects in VB to aid in generating Excel reports

SUNCOR ENERGY INC. (OIL SANDS), FORT MCMURRAY, AB
(A growing integrated energy company strategically focused on developing one of the world's largest petroleum resource basins – Canada's Athabasca oil sands.)

- ★ Re-Architected the Web Based Amendments and Releases workflow system
- ★ Worked closely with IT Department
- ★ Developed DB Conversion for old WBAR data
- ★ System Interfacing with Financial systems (ORACLE)
- ★ Developed PACT Enhancements to meet clients needs

BC BUILDINGS CORP. (BCBC), VICTORIA, BC
(BC Buildings Corporation is Government's primary strategic advisor for, and manager of, real estate and accommodation services in the province.)

- ★ Developed a web based vendor performance entry system
- ★ Developed Oracle Procedures to email BCBC personnel to fill out a vendor performance when a contract end date has been reached
- ★ Developed PACT Enhancements to meet clients needs

SOFTWARE DEVELOPER, ORBITAL TECHNOLOGIES INC. VANCOUVER, BC 2000
(WORKTERM)

Developed educational children's software for TLC using a variety of software tools, such as VC++, CodeWarrior, and ToolBook. This position involved creating a tool for educators to install and control online curriculum for students. I ported several Broderbund software titles for use with the educational tool. This often required reverse engineering binary file formats and learning new development tools.

SOFTWARE DEVELOPER, WENCO SYSTEMS LTD. VICTORIA, BC 1999 (WORKTERM)

Implemented several Internet solutions for Wenco Systems, such as an online bug tracking system and Time Management System. Additional duties included network administration and auditing/implementing network integrity and security.

NETWORK ADMINISTRATOR, ISM-BC TELECOM SOLUTIONS BURNABY, BC 1998
(WORKTERM)

Implemented and maintained several Solaris servers, as well I was responsible for all Windows Administration and support. My primary task was the development of two new DNS servers, and reorganizing the network topology. The main goal of this task was to increase network security.

TECHNICAL SKILLS

LANGUAGES	C#, C/C++, HTML, JAVA, JAVASCRIPT, OWL, PHP, PL/SQL, RDF, UML, VB/VB.NET, XML
PLATFORMS	WINDOWS, LINUX, UNIX, APPLE
SOFTWARE	ACCESS, APACHE, CVS, ECLIPSE, IIS, MYSQL, NETBEANS, ORACLE, PROTEGE, SVN, TOMCAT, VISUAL STUDIO
SOFTWARE ENGINEERING	SOFTWARE ARCHITECTURE, DISTRIBUTED COMPUTING, OBJECT ORIENTED DESIGN, SERVICE ORIENTED COMPUTING

EDUCATION

University of South Carolina, SC - Masters of Engineering (Computer Science), 2008

University of Victoria, BC - Bachelors of Science (Computer Science - Software Engineering Opt.), 2001

PUBLICATIONS

Michael N. Huhns, José M. Vidal, Alicia Ruvinsky, Benito Mendoza, and Scott Langevin. Cultural Tactical Advisor for Warfighters. *In Proceedings of 25th Army Science Conference*, 2006.

PROFESSIONAL AFFILIATIONS/MEMBERSHIPS

- ★ IEEE Computer Society
- ★ Association for the Advancement of Artificial Intelligence (AAAI)
- ★ Research Member of Center for Information Technology - University of South Carolina
- ★ Multi-agent Systems Reading Group - University of South Carolina
- ★ Bayesian Network Reading Group - University of South Carolina
- ★ International Honor Society for the Computing and Information Disciplines (Upsilon Pi Epsilon)
- ★ International Honor Society for Electrical and Computer Engineering (Eta Kappa Nu)
- ★ Founding Member of USC Tech Talk Group - University of South Carolina

INTERESTS

Hiking, Camping, Kayaking, Reading and Traveling.

REFERENCES

Furnished upon request.