

## SETH ROBERT GOLDMAN

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Highly accomplished Technologist with experience in software development, management, enterprise architecture and strategy. Over 25 years of experience in Artificial Intelligence coupled with excellent communication skills and proven success in problem solving and strategic thinking.

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### PROFESSIONAL EXPERIENCE

**7/2004-1/2006**      **AMERIQUEST CAPITAL CORPORATION CAPITAL HOLDINGS**      **Orange, CA**  
**Strategic Technology Officer**

Created the Office of Strategic Technology, a focal point for coordinating technology initiatives across multiple lines of business. Established the Technology Review Board consisting of executives from each technology group to define standards, improve efficiency, and lower costs through reuse of existing assets. Instituted technology working groups comprised of mid level managers from different lines of business to foster cooperation and knowledge sharing horizontally. Met with vendors to evaluate their potential value to the organization. Initiated a utility computing project to reduce proliferation of hardware environments (dev, test, perf, cert, prod) and leverage existing hardware resources. Initiated an Enterprise Compliance Engine project to improve the quality of originated loans using an outside vendor. Oversaw the evaluation process and vendor negotiations.

**6/1997-6/2004**      **COUNTRYWIDE FINANCIAL CORPORATION**      **Calabasas, CA**

**Senior Vice President, Artificial Intelligence**      **10/2002 – 6/2004**

Redesigned CLUES into a service oriented architecture to address changing needs of the business and desire to eliminate dependence on expensive third party software. Instituted test oriented development methodology including nightly builds and smoke tests to ensure consistent quality and facilitate parallel development of old and new CLUES. Designed highly available application architecture to maximize utilization of multiple data centers.

**First Vice President, Artificial Intelligence**      **5/1999 – 10/2002**

Took over product and development responsibilities for Countrywide's Loan Underwriting Expert System (CLUES). Created AI Services, a suite of middle tier web services providing a wide variety of functions to line of business origination applications including: credit ordering and retrieval, automated underwriting, compliance validation, automated property valuation, fraud detection. Managed the complete rewrite of the proprietary business rules engine to improve performance, functionality, and maintainability. Elected to President's Council.

**Director, Artificial Intelligence**      **9/1997 – 5/1999**

Assumed development and product management responsibilities for business rules engine. Put engine into production and oversaw ongoing support and maintenance activities.

**Senior Knowledge Engineer, Artificial Intelligence**      **6/1997 – 9/1997**

Software development on a proprietary business rules engine.

**6/1989-5/1997**      **HUGHES RESEARCH LABORATORIES**      **Malibu, CA**  
Research Staff Member

• **National Ground Intelligence Center**      **7/1996 – 5/1997**

Principal investigator for contract to investigate the acquisition of opposing forces doctrine and tactics using fuzzy table technology.

• **Synthetic Forces (Army/Marine CFOR and Marine IC)**      **12/1995 - 5/1997**

Responsible for knowledge acquisition from subject matter experts for mission planner and overall command entity development. Designed and implemented fuzzy table technology to facilitate knowledge acquisition, operationalization, and validation.

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PROFESSIONAL EXPERIENCE CONTINUED

- **Hughes/Pareto Financial Joint Venture** 1991-1996  
Director of software technology for the Hughes portion of the joint venture to build global investment products. Responsible for interface design, demo construction, software development, simulations, product support and porting to new platforms. Participated in marketing activities.
- **MUC-5 / TIPSTER (DARPA)** 1993  
Collaborated with the University of Massachusetts at Amherst to combine our different methodologies for processing large natural language text corpora for the domains of joint ventures and microelectronics.
- **MUC-4 (Message Understanding Conference) (DARPA)** 1992  
Provided technical guidance and expertise for modifications to MUC-3 system to improve system performance.
- **MUC-3 (Message Understanding Conference) (DARPA)** 1991  
Participated in the design and implementation of the Hughes Trainable Text Skimmer for constructing incident reports based upon a text corpus about Latin American terrorism.
- **Distributed Databases** 9/1990-2/1991  
Participated in the design and implementation of a smart data dictionary and graphical user interface to facilitate merging schemas across multiple distributed database systems.
- **Modular Knowledge Acquisition Toolkit (M-KAT)** 6/1989-12/1990  
Participated in the design and construction of M-KAT, a collection of tools for acquiring knowledge from experts and rapid prototyping of expert systems.

1/1988 - Present

**SRG CONSULTANTS**  
President and Founder

**Los Angeles, CA**

Specializing in consulting contracts for software development, custom database applications, systems installation and maintenance, networking, and training.

- **Hughes Research Laboratories** 1/1990 - 5/1990  
Apollo network administration.
- **Laser Blazer** (Video software and hardware retail store) 1/1988 - Present  
Develop and maintain database for managing invoices, orders, rentals, sales, and inventory.
- **UCLA Biology Department** 1/1987 - 6/1987, 1989 - 1990  
Software development for Artificial Life research. Multiple species population simulations.
- **UCLA Cognitive Science Research Program** 1988-1992, 6/1984 - 6/1986  
Administration of the Cognitive Science Interdisciplinary Computing Network consisting of more than 40 Apollo workstations distributed throughout the campus.

7/1988 - 12/1988

**COMPUTER TRAINING SPECIALISTS**  
Consultant

**Culver City, CA**

- **McDonnell Douglas West Coast AI Center** (Cypress, CA) 8/1988 - 12/1988  
Responsible for curriculum development and teaching of introductory and advanced level courses in Artificial Intelligence.
- **McDermott Corporation** (New Orleans, LA) 7/1988  
Developed and taught a one week course on the LISP programming language.

8/1987 - 6/1988

**LOUISIANA STATE LAW AND AI PROJECT**

**Baton Rouge, LA**

Consultant for expert system development to process legal statutes.

6/1986 - 12/1986

**EVOLUTIONARY SOFTWARE, INC.**

**Los Angeles, CA**

Consultant responsible for developing a distributed database in Common Lisp for coordinating program development in a hybrid network of Symbolics and TI Lisp Machines.

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**PROFESSIONAL EXPERIENCE CONTINUED**

<b>1/1983 - 1/1989</b>	<b>USC/INFORMATION SCIENCES INSTITUTE</b> Research assistant. <ul style="list-style-type: none"><li>• <b>Knowledge-Based Specification Assistant</b></li><li>• <b>CommonLisp Framework (FSD/CLF)</b></li><li>• <b>SAFE</b></li></ul>	<b>Marina Del Rey, CA</b>  1/87-1/89 1/83-1/88 Summers 1980, 1981
<b>Summer 1983</b>	<b>RAND CORPORATION</b> RAND AI Fellow. Helped develop SAL, an expert system for asbestos litigation.	<b>Santa Monica, CA</b>
<b>9/1982 - 6/1983</b>	<b>UNIVERSITY OF CALIFORNIA</b> Teaching assistant. <ul style="list-style-type: none"><li>• Taught sections for introductory programming course using Pascal.</li><li>• Developed a class information management system for course administration.</li></ul>	<b>Los Angeles, CA</b>  9/82 - 6/83 1/83-3/83
<b>Summer 1979</b>	<b>LOCKHEED CALIFORNIA COMPANY</b> Programmer/Analyst. CADAM group. Redesigned and implemented the base level graphics.	<b>Burbank, CA</b>

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**EDUCATION**

<b>UNIVERSITY OF CALIFORNIA</b> Master of Science degree in Computer Science. Major Field: Artificial Intelligence (Natural Language Understanding). Minor Fields: Cognitive Psychology and Human-Machine Interaction. Master's thesis: <i>A Process Model of Precedent-based Legal Reasoning and Knowledge Acquisition in Contract Law.</i>	<b>Los Angeles, CA</b> 9/1986
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</b> Bachelor of Science degree in Computer Science. Humanities concentration: Psychology.	<b>Cambridge, MA</b> 6/1982

**PUBLICATIONS**

- Goldman, Seth R. (1996). "Knowledge Acquisition and Delivery: Constructing Intelligent Software Command Entities." In *Proceedings of the Sixth Conference on Computer Generated Forces and Behavioral Representation*. Orlando, FL.
- Dolan, C. P., Goldman, S. R. (Hughes) & Lehnert, W., McCarthy, J., Soderland, S., Riloff, E., Cardie, C., Peterson, J., & Feng, F. (UMass) (1993). "UMass/Hughes: Description of the CIRCUS System used for MUC-5." In B. Sundheim (Ed.), *Fifth Message Understanding Conference*. Baltimore, MD: Morgan Kaufmann.
- Goldman, S. R. (1993). *BOND Product User Guide* (User Manual). Hughes Pareto Research Partners.
- Dolan, C. P., Goldman, S. R., Cuda, T. V., & Nakamura, A. M. (1991). "HUGHES TRAINABLE TEXT SKIMMER: DESCRIPTION OF THE TTS SYSTEM AS USED FOR MUC-3." In B. Sundheim (Ed.), *Third Message Understanding Conference*. Naval Ocean System Center, San Diego CA: Morgan Kaufmann.
- Dolan, C. P., Goldman, S. R., Cuda, T. V., & Nakamura, A. M. (1991). "HUGHES TRAINABLE TEXT SKIMMER: MUC-3 Test Results and Analysis." In B. Sundheim (Ed.), *Third Message Understanding Conference*. Naval Ocean Systems Center, San Diego, CA: Morgan Kaufmann.
- Goldman, S. R., & Dolan, C. P. (1991). "Looking Over the User's Shoulder: A Pragmatic Approach to Automated Text Processing and Retrieval." In *AAAI Workshop on Natural Language Text Retrieval*. Anaheim, CA.
- Goldman, Seth R. (1988). "Towards A Computational Model of Concept Acquisition and Modification Using Cases and Precedents from Contract Law." In *Proceedings of the Fifth Israeli Symposium on Artificial Intelligence (ISAI-88)*. Tel Aviv, Israel.
- Goldman, Seth R., Dyer, Michael G., and Flowers, Margot. (1988). "Representing Contractual Situations." In *Computer Power and Legal Language*. Charles Walter, editor. Quorum Books. Westport, Connecticut.
- Goldman, Seth R., Dyer, Michael G., and Flowers, Margot. (1987). "A Process Model of Precedent-based Legal Reasoning and Knowledge Acquisition in Contract Law." In *Proceedings of the First International Conference on Artificial Intelligence and Law (ICAIL-87)*. Boston, MA.
- Goldman, Seth R. (1987). *Acquisition and Integration of Legal Concepts in Memory*. UCLA Artificial Intelligence Laboratory. Technical Report UCLA-AI-87-5. Los Angeles, CA.
- Goldman, Seth R. (1986). *A Process Model of Precedent-based Legal Reasoning and Knowledge Acquisition in Contract Law*. Masters Thesis. University of California, Los Angeles.
- Goldman, Seth R., Dyer, Michael G., & Flowers, Margot. (1985). "Learning To Understand Contractual Situations." In *Proceedings of the 9th International Joint Conference on Artificial Intelligence (IJCAI-85)*. Los Angeles, CA.
- Goldman, Seth R. and Preyss, Eric. (1984). *The T Flavors Manual*. UCLA Artificial Intelligence Laboratory. Technical Note UCLA-AI-84-4. Los Angeles, CA.
- Taylor, Charles, Jefferson, David, Turner, Scott R., and Goldman, Seth R. (1988). "RAM: " In *Artificial Life*. Chris Langton, editor. Addison-Wesley.
- Turner, Scott R. and Goldman, Seth R. (1987). *Ram User's Manual*. UCLA Artificial Intelligence Laboratory. Technical Note UCLA-AI-87-7. Los Angeles, CA.