

# Gordon Fischer

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## Qualifications

- 10+ years experience in information technology
- 4+ years experience in leadership roles
- Product design, management and implementation
- Event-driven and object-oriented methodology
- Artificial intelligence design techniques
- Distributed programming and cluster management
- Embedded and real-time system development
- Relational database architecture

## Publications

- Co-author of *The Linux Kernel Primer*
- Inventor or co-inventor on nine pending patents

## Technology

- C, Lisp, C++, Java, Prolog
  - Ruby on Rails, Perl, PHP, AJAX, Javascript
  - Linux, OpenBSD, FreeBSD, Mac OS X
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## Employment History

### Director of Technical Development

Sep 2004 - Sep 2006

*Kozoru - Overland Park, Kansas*

- Successfully created and released a customizable chat-based search technology
- Designed numerous protocols to interface with external search APIs and chat networks
- Constructed and implemented natural language, statistical and hybrid parsers for extraction of key sentences
- Developed distributed cluster management techniques for hundreds of nodes
- Architected and deployed a template extraction for wikipedia chat buddy - similar to wikiseek.com
- Managed a team of seven software engineers

### Technical Team Lead

Mar 2004 - Aug 2004

*21st Century Technologies - Austin, Texas*

- Led research and development for homeland security threat assessment tool
- Focused on semantic reasoning, graph matching and social network analysis

### Embedded Software Developer

Aug 2000 - Sep 2003

*Advent Networks - Austin, Texas*

- Developed multi-threaded initialization and software update programs for router firmware
- Assembled and modified embedded operating systems for deployment on custom cable modems and switch routers
- Created and modified Linux device drivers for a variety of hardware and software devices
- Constructed communication and control programs and protocols across both internal and external interfaces of switch routers and modems
- Maintained and continued product development of three lifecycles of hardware
- Project lead of four software engineers

### Server Developer

Mar 2000 - Aug 2000

*Netpliance - Austin, Texas*

- Designed and implemented a distributed server architecture to control data flow between hundreds of thousands of remote clients

### Artificial Intelligence Developer

Sep 1998 - Feb 2000

*Cycorp - Austin, Texas*

- Created a semantic web search engine using information from the CYC knowledge base
- Formulated and programmed methods of communication and computation for distributed knowledge bases
- Developed core CYC technology for use in ontological searching, inferencing and caching
- Participated in constructing an ontology used in augmenting answers for DARPA crisis scenarios

### Real-Time Speech Algorithm Developer

Jan 1998- Apr 1998

*Northern Telecom - Montreal, Quebec*

- Enhanced rejection and token handling of speech recognition software
- Optimized speech recognition algorithms and co-developed a test tool for firmware based continuous speech recognition

**Programmer / Analyst**

*Allied Domecq - Windsor, Ontario*

May 1997 - Aug 1997

May 1994 - Aug 1994, Jan 1995 - Apr 1995

- Established object oriented class libraries for use by developers world wide
- Co-developed Windows based sales force automation program for North American deployment
- Constructed automated procedures for conversion, replication and integration of mission critical data
- Led standards development in object oriented programming and system analysis

**Systems Programmer**

*IBI Group - Toronto, Ontario*

May 1996 - Aug 1996

- Participated in developing classes and debugging the real-time program for the Toronto Pearson Airport computerized taxi deployment system
- Developed internal accounts receivable application for international use
- Planned, constructed, tested and assisted in deploying the accounts receivable application

**Education**

- **University of Waterloo**

Honors Bachelor of Mathematics - Computer Science with Cognitive Science Option