

Gabor Melis

mega@retes.hu

PROFILE

A Senior Software Engineer with solid mathematical background and Lisp development experience. Main focus on machine learning and data mining. Self-motivated, able to work on own initiative and as part of a team. Good communication skills, high personal standards.

EDUCATION

1995 - 1997: ELTE, MSc, **Software Architect, Mathematician**

Branch of study: databases, **A.I.**, networking, computer graphics. Diploma on artificial **neural networks** and **fuzzy logic**. Excellent grades.

1992 - 1995: ELTE, BSc, **Programmer, Mathematician**

PROFESSIONAL EXPERIENCE

2006 - 2009: **Ravenpack Ltd**, Marbella, Spain

- λ Researching relationship between news and the stock market.
- λ Sentiment analysis of news.
- λ Filtering out redundant information from text.
- λ Breeding time series approximators using genetic programming.
- λ Named Entity Recognition for company names.
- λ Developed and maintained **Common Lisp** programs.

1998 - 2005: **EssNet Lottery Services**, Budapest and Stockholm

A major gaming company creating IT solutions for lotteries.

Senior Software Engineer in R&D and Design groups

- λ Designed and implemented programmable simulator for a proprietary network protocol in **Common Lisp** using **ABCL**.
- λ Designed and implemented a configuration management solution in **Common Lisp** to support component based development. The tools were later open sourced.
- λ Member of the Terminal Design and Configuration Management groups overseeing design, architecture and controlling development.
- λ Member of the Terminal **Research and Development** group conducting studies, evaluating technologies and tools.

Software Engineer

- λ As designer/programmer/sysadmin in the E6 project helped create the next generation lottery terminal in *Java* on *Linux*.
- λ Worked with *CORBA*, *Java* and *UML* modeling while implementing an internet solution for the existing lottery system.
- λ Server side programming on *VMS* in *C* and *SQL*.

1997 - 1998: **FreeSoft Kft**, Budapest

- λ Reimplemented the Ingres report generator for Oracle databases as part of the migration process.

HOBBY PROJECTS

On a quite different track, I am also responsible for *Six*, a Hex playing program for KDE that won the gold medal at the 2003, 2004 and 2006 Computer Games Olympiad. *Six* is open source and can be downloaded from <http://six.retes.hu/>.

Naturally attracted to A.I. related fields I studied and prototyped online recommender systems, trust networks. Participated in the *Netflix Prize*.

I am the author of various open-source **Common Lisp** libraries including SVD, LSA, Boltzmann Machine implementations and a libsvm wrapper (see <http://quotenil.com/git/> for a more complete list).

I am an **SBCL** developer, mainly working on signal handling, threads, timers with small excursions to constraint propagation, weak hash tables (based on CMUCL code) and optimizing x86/x86-64 calling convention. Also contributed to other **Common Lisp** projects, such as **Elephant** and **Portable Allegroserve**.

KEY SKILLS

- λ machine learning
- λ intensive **Common Lisp** since 2002
- λ strong design skills
- λ Linux/UNIX since 1995
- λ excellent knowledge of C and C++ languages
- λ five years of Java experience

LANGUAGES

- λ **Hungarian**: mother tongue
- λ **English**: fluent
- λ **Spanish**: intermediate

PERSONAL

- λ Born: 1974
- λ Citizenship: Hungarian
- λ E-mail: mega@retes.hu
- λ Homepage: <http://quotenil.com/>