KORNÉL CSERNAI

CONTACT INFORMATION

San Francisco Bay Area, CA, USA

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INTERESTS

Artificial Intelligence, Machine Learning, Pattern Recognition, Distributed Systems, Peer-to-Peer Networks, BitTorrent, Web Development, Big Data.

EDUCATION

University of Szeged, Szeged, Hungary

Computer Science MSc **September 2010 – June 2012**

- Specialized in Artificial Intelligence
- Advisor: Márk Jelasity

Computer Science BSc **September 2007 – June 2010**

- Advisor: Márk Jelasity

PROFESSIONAL EXPERIENCE

Quora, Inc., Mountain View, CA, USA

Software Engineer **2012 – present**

QLectives, HAS-SzTE Research Group on Artificial Intelligence, University of Szeged, Szeged, Hungary

Software Developer **May 2009 – May 2012**

EU FP7 project. For QMedia, I have been working closely with our team and other teams from partnering universities.
I gained a good understanding of peer-to-peer systems, machine learning algorithms, and recommendation systems. We investigated private BitTorrent community traces which led to two publications. We have implemented machine learning techniques in a fully distributed peer-to-peer network. For QScience, we have been developing Web 2.0 applications and Drupal 7.x modules.

University of Szeged, Szeged, Hungary

Teaching Assistant **September 2008 – January 2010**

Teaching assistant for introductory undergraduate courses in Computer Science.

PROJECTS

Tribler – I have implemented machine learning algorithms in a fully distributed peer-to-peer network.

Patterns – Drupal 7.x module, enabling system administrators to export and import data from Drupal instances using programmed forms.

YaOSp, Yet Another Operating System – hobby project, an experimental operating system with limited hardware support, some ported applications and a GUI.

For a more detailed list of my projects, see my GitHub page:

https://github.com/csko/

COMPUTER SKILLS

C, C++, Java, Python, Linux shell scripting, Octave/Matlab, PHP, XHTML, CSS, JavaScript, SQL, LaTeX

PUBLICATIONS

Kornél Csernai, Márk Jelasity, Johan Pouwelse, and Tamás Vinkó. **Modeling unconnectable peers in private BitTorrent communities**. In *Proceedings of the 19th Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP'11)*, pages 582–589, Ayia Napa, Cyprus, 2011. IEEE Computer Society. MSOP2P special track.

Róbert Ormándi, István Hegedűs, Kornél Csernai and Márk Jelasity. **Towards inferring ratings from user behavior in BitTorrent communities**. In *Proceedings of the 6th International Workshop on Collaborative Peer-to-Peer Systems (COPS)* at WETICE'10, pages 217–222. IEEE Computer Society, 2010. Best paper award.