KRISTÓF CSILLAG

PERSONAL DETAILS
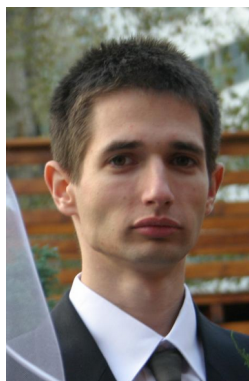
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Linkedin: http://linkedin.com/in/kristofcsillag
Location: Zsambek (near Budapest)
Date of birth: 18th June 1982.
Marital status: married, father of four

Purpose: I would like to improve my capabilities as a developer or a researcher of a leading institute or company, and I would like to apply them in useful projects.

WORK EXPERIENCE

2015. May – 2016. Oct (remote position)	Senior software developer at **GoEssential**. (A startup in Austria) Worked on a web application for essentializing (annotating) text and video content. (Also a sophisticated video library.) Frontend tech: ES6, Typescript, React.js, Meteor.js, annotator.js Backend tech: Meteor.js, Node.js DB tech: MongoDB, Elasticsearch
2012. Nov – 2015. May (remote position)	Senior software developer at **Hypothes.is** (A California-based startup) Worked on an open-source web application for annotating the Internet and PDF files. Contributed to the W3C standardization processes, and the upstream annotator.js project Frontend tech: Coffeescript, ES6, AngularJS Backend tech: Python, Pyramid DB tech: Elasticsearch, Postgres SQL
2012. Jul – 2012. Nov (remote position)	Developer for **10betterpages** (A startup in Germany) Worked on the background architecture of a web application (called, at that time, Cliqz) for monitoring and predicting the social spreading of articles in the Internet. Task: filtering, recording and analyzing Twitter streams in the cloud. Tech: Python, twitter APIs, Amazon Web Services (S3, EC2, SNS, SQS, SDB, SES) Also worked on custom integrated notification service (Python, AWS SNS.)
2010 – 2012 (independent project)	Attempted to launch a startup, **WhysOwl,** with the help of a co-founder. Research in the area of Knowledge Management, identified opportunities for progress. Created the concept of a new kind of communication, and designed the software tool to support/facilitate it. Organized a market research operation to validate the product concept. Developed working prototype of the software. Worked on presenting the idea to startup incubators and potential investors.

2011. Aug – 2012. July (on-site consultant)	Software engineer for **GE Healthcare** Working on designing and prototyping the next generation of the "Advantage Workstation" and "Advantage Workstation Enterprise" products. Tech: Java, Eclipse, OSGi, X, NX
2010. Oct – 2011. Aug (on-site consultant)	Software engineer for **HP Enterprise Services** Hungary Code analysis, maintenance and development on the various systems of Vodafone Hungary. (Mediation, billing, provisioning, etc. Mostly Amdocs solutions.) Designing and implementing internal dev. tools to support HP's internal processes
2009. Oct – 2010. May (independent project)	Lead software developer in the "SzolOrg" and "OrgTel" projects. This was a project to monitor the performance of the processes of various governmental organizations. (The parent project was funded by the European Union.) We sub-contracted to design and develop the web application to facilitate the process. Worked in 2-man development company + 1 delegate of the local government offices. • 3-tier web application: SQL database, Java server, Java/JavaScript client side • Project contained about 50 KLOC (45 KLOC of Java; the rest is SQL, XML, JS) • Tech: MySQL, Tomcat, Eclipse, SVN, GWT, SmartGWT, POI, gflot
2009. May – 2009. Dec (on-site consultant)	Software developer for **General Electric Healthcare** • Design and development for web UI for the "ProSeniis" research project, and for the "QuietCare" product. • Survey and evaluation of available web technologies • Discover, evaluate and pick the technologies to be used • Design and implementation of web dev framework • Design and build the web application • Apply, maintain and refine graphical design
2009. Mar – 2009. Jun (remote position)	Quality Controller and code reviewer for the "TMT" test management web application.
2006. Sep – 2008. Dec (on-site consultant)	IB Engineer, Integration and Verification engineer at **General Electric Healthcare** • Testing and development in "AW Standalone" and "AW Server" projects • Development in network image transmission layer (NX) and web-based maintenance application (GWT)
2005. Jun – 2006. Aug	Research assistant at the **Department of Distributed Systems** of the Computer and Automation Research Institute of the Hungarian Academy of Sciences (**MTA SZTAKI**). • Development in various R&D projects (mostly in Java and PHP), • GNU/Linux system administration tasks, • General technical consulting for staff members, • Maintaining and developing the division's website.
2002 – 2005 (voluntary work)	Programmer, editor and operator of the website of the MKK (Catholic Community of the Technical University)
2001 – 2004 (voluntary work)	Leader of the Hungarian translation team of the **GNU Project**
1999 (remote position)	Developed an accounting system for some departments of **Kite Rt**. (Borland Delphi) Wrote small utilities for Kite Rt. (**DOS, ASM**)

E D U C A T I O N

2000 - 2006	Budapest University of Technology and Economics, Department of Computer Science (Special subject: "Integrated Intelligent Systems")
1994 - 2000	"Karacs Ferenc" secondary school, Püspökladány (excellent final exam)

C O M P E T I T I O N S ,   S C H O L A R S H I P S

Mathematics:
- Numerous 1st places in my home county (Hajdú-Bihar)
- Passed into the finals of the "OKTV" (National Secondary School Students Competition) in the 1998/1999 academic year

Physics:
- **III. prize** at the competition of "**Eötvös"** in 1999.

Chemistry:
- 1st place in my county, and 11th place nationwide at the "OKTV" of 1998/1999
- Included in the **Olympic pool of contestants** in 1999 and in 2000

Computer science:
- Numerous 1st places in my home county (Hajdú-Bihar)
- 4th, 6th and 7th place nationwide at the competition of "Tihamér Nemes OKSzTV" in 1997, 1998 and 2000
- Part of the Hungarian team taking part in the **CEOI (Central-European Olympiad in Informatics)** in 1999 and in the **IOI (International Olympiad in Informatics).** Won **Bronze medal**.
- 3rd and 4th place at my university at the **ACM Programming Contest** in 2002 and 2003; 5th place nationwide in 2004.
- **Prime minister's scholarship** for one year, starting from 2000.

C O N F E R E N C E S ,   P U B L I C A T I O N S

Kristóf Csillag, Gergely Patay – „*What Shall We Do With a Drunken Sailor? Computer Simulation of Random Walk"* – presentation at **Junior Mathematical Congress** in Miskolc in 2000.

Kristóf Csillag, Zoltán Istenes – „*Bevezetés az érvtérképészetbe"* (English translation: „*Introduction to Argument Mapping")* – article appeared in the periodical of the *Scientific Association for Infocommunications, Hungary* in 2006.

C O M P U T E R   S K I L L S   A N D   E X P E R I E N C E

Programming languages:
- JavaScript, CoffeeScript, TypeScript
- Python
- C, C++, Java
- Prolog, CLP, SML, SQL
- PHP, HTML, CSS, XML, XHTML, XSL, VRML
- *x86 ASM, BASIC, Pascal, Object Pascal*

Operating systems:
- DOS, Windows, Unix (GNU/Linux)

Environments, tools:
- Meteor.js, React.js, AngularJS
- Emacs, Eclipse, Netbeans
- CVS, SVN, ClearCase, Git
- MySQL, PostreSQL, ElasticSearch, Mongodb
- Apache, Tomcat, GWT, SmartGWT
- gcc, g++, gcj, gpc, fpc, glibc, glib, gtk, gnome, anjuta, KDE, Kdeveloper
- GW-Basic, QBasic, Borland Pascal, Delphi, C Builder

Installing and managing GNU/Linux systems since more than 18 years

Installing, configuring and operating firewalls and network services:
- DHCP, DNS, SSH, VPN, NTP, E-mail, HTTP, FTP, NFS, Samba, LPR, CUPS, X, NX, VNC, LTSP, VOIP...

L A N G U A G E S

English: fluent
German: basic level (learned for 4 years in secondary school)
Latin: basic level (learned for 2 years in secondary school)
Hungarian: native speaker

O T H E R

Driving license ("B" category)

A R E A S   O F   P R O F E S S I O N A L   I N T E R E S T

I am chiefly interested in areas connected to **artificial intelligence** and in technologies aiming to understand and/or augment **natural intelligence**:
- Inference engines, expert, production and decision support systems,
- Neural networks and other learning or adaptive systems,
- Knowledge engineering and representation, data warehouses, data mining, semantic web,
- Innovative communication and collaboration applications

O T H E R   A R E A S   O F   I N T E R E S T

Natural sciences:
- physics (cosmology and other border areas), biology (research on the brain),

Social sciences:
- [cognitive] psychology, social psychology,

Politics, futurology, philosophy, ethics, religion
Music (played the piano for 10 years)

P E R S O N A L   T R A I T S

IQ above 155 (according to authentic testing performed by Mensa HungarIQa)
Quick thinking and learning, creative approach
Outstanding ability to use logic and think rationally
Ability to see through complex issues, and effectively analyse and solve them

Zsambek, October 2016.