

Juraj Skripsky

Curriculum Vitae

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Personal Details

Date of Birth January 27th, 1976
Place of Birth Schlieren ZH, Switzerland
Nationality Swiss, Slovak

Work History

- 2014 **Scientific Staff Member (part-time)**, *HSR Hochschule für Technik*, Rapperswil.
Role: Scrum Master and Software Engineer.
Architecture and development of a web-based Precision Farming system (Ruby on Rails, JavaScript/TypeScript, Leaflet library, various GIS tools).
- 2012–2013 **Senior Software Engineer (part-time)**, *Greenliff AG*, Zurich.
Development of a graphical configuration application for Smart Cards, in a small Scrum team (C#, ASP.NET Web API, JavaScript, Knockout.js library, Web Sockets, Chromium Embedded Framework).
Development of a Jenkins plugin (Java).
Rewrite of an internal tool for time tracking (from Java to F#).
Introduction of Git for all subsequent development projects at Greenliff.
- 2005–2013 **CEO and Software Engineer**, *HotFeet GmbH*, Zurich.
Development of websites and web applications (C#, JavaScript, F# since 2011).
Complete technological transition from PHP+MySQL to Mono+ASP.NET+db4objects.
Complete rebuilding of internal web and mail hosting infrastructure with focus on performance and security. Installation, configuration and maintenance of multiple Linux-based servers and services (web, mail, dns, ftp, ldap, ...). Introduction of various development tools (Wiki, code versioning system, project and issue tracking system, task tracker).
- 2003–2009 **Open Source Contributor**, *Mono Project et al.*
Mono: Major rewrite of important components (Dictionary class, Array.Sort methods, SQL where-clause parser and evaluator), bug fixes (ASP.NET, xsp/mod_mono), optimizations (Regex matching engine) and enhancements (C#, C). Intimate knowledge of class libraries and runtime.
NPlot: bug fixes, enhancements (C#).
Typeface-js: bug fixes, enhancements (JavaScript).
- 2002–2004 **Software Engineer**, *HotFeet GmbH*, Zurich.
Development of websites and web applications (PHP, and the occasional pinch of Perl).
- 2000 **Internship**, *Theissen Security Systems AG*, Sissach.
Analysis of the data flow and storage of a proposed client-server based E-commerce system with regard to security and applicable cryptographic methods and protocols.
Development of a GUI prototype for the proposed system (Java, Swing library).
- 1998 **Software Developer**, *3C Systems AG*, Urdorf.
Design and development of testing software for a proprietary Smart Card transfer protocol (C++).
- 1995 **Software Developer**, *Ulrich Electronic GmbH*, Gleisdorf, Austria.
Complete rewrite of PV for graphical environments (C++, zWindows library, multi-platform).
- 1993–1996 **Freelance Software Developer**, *Koelliker Büroautomation AG*, Wallisellen.
Design and development of “PV”, a system for the entry and storage of patient’s personal data for hospitals (C++, Turbo Vision library).
Development of a driver for a proprietary form printer (C++).
Development of a driver for a Smart Card reader (C++).

- 1992–1993 **Freelance Software Developer**, *IWB Industrielle Werke Basel*, Basel.
Development of a tool for the analysis of data from a proprietary time management system (C, Assembler).
- 1992 **Freelance Software Developer**, *WARO AG*, Basel.
Development of data conversion tools (C).
- 1991–1992 **Freelance Software Developer**, *Koelliker Büroautomation AG*, Wallisellen.
Development of multiple small command line tools (C, Assembler).

Education

- 1996–2002 **Master of Computer Science**, *ETH Zurich*.
Focus on cryptography, security and information theory, software architecture and design patterns, the Unix architecture, computer graphics and image analysis.
Master thesis: *The Gap Between Intrinsic Information and the Secret Key Rate* (<http://www.hotfeet.ch/about-us/papers/js/gap-between-intrinsic-info-and-ska.pdf>).
Minor subject: Business Studies.
- 2001–2002 **Assistant for Lecture "Informatik III"**, *ETH Zurich*.
Programming paradigms: Functional Programming (Standard ML), Logical Programming (Prolog) and Object-Oriented Programming (Java).
- 2001–2002 **Didactic Training with Practical Guidance**, *ETH Zurich*.

Languages

German, Slovak	native
English	fluent
French	basic

IT Skills

Excellent

Languages	C# (since 2003), F# (since 2011), Java, C++ 98, C, Assembler
Platforms	.NET and Mono (since 2003)
Paradigms	Object-Oriented Programming and GoF Design Patterns, Functional Programming
Web	ASP.NET, XHTML/HTML5, CSS/Sass, JavaScript, jQuery, Knockout.js, REST, Web Sockets
Databases	MySQL, MS SQL Server, db4objects, Apache Lucene.net
Data Interchange	XML, XSLT/XPath, XSL-FO, Json
DevTools	Git, Subversion, Jenkins, Atlassian Jira
Methodologies	Agile, Scrum, GTD
SysAdmin	Linux (since v2.0, RedHat/Fedora, Debian): System and network administration, shell scripting, virtualization (VMware, KVM + Qemu). Services: MySQL, Apache (http) + mod_mono, Postfix (smtp) + Dovecot (pop, imap), PowerDNS, OpenLDAP, Nagios (monitoring), ProFTP, Spamassassin + SQLGrey

Good

Languages	Python, Ruby, TypeScript, Prolog, Perl
Meta-Programming	F# Code Quotations and Computation Expressions, F# Compiler Service AST/Symbols/Types, MSIL/System.Reflection.Emit, Mono.Cecil

Basic

Languages	Haskell, Rust, LLVM IR
Foundations	Type Theory, Category Theory, Compiler Design

Publications

A New Measure for Conditional Mutual Information and its Properties (Renato Renner, Juraj Skripsky and Stefan Wolf. Presented at the ISIT 2003 in Yokohama, Japan. <http://www.hotfeet.ch/about-us/papers/js/rsw03.pdf>)

Interests

- Literature (mostly english): technical and fictional, theater plays
- Mathematics and Physics
- Psychology
- Running, Tennis, Hiking

Links

- *LinkedIn Profile*: <https://www.linkedin.com/in/juraj-skripsky-4338a217/>
- *GitHub Profile*: <https://github.com/jskripsky>
- *Mono Contributions*:
<https://github.com/mono/mono/search?q=Skripsky&type=Commits>
- *HotFeet Website*: <http://www.hotfeet.ch/home.aspx>
- *GitHub Profile*: <https://github.com/HotFeet>