

KÁROLY Szántó

PERSONAL DATA

PLACE OF BIRTH: Popesti, Bihor, Romania
DATE OF BIRTH: 14th of July 1985
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WORK EXPERIENCE

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| AUGUST 2012
PRESENT | <p>Technical Lead at 3PILLAR GLOBAL, Timisoara, Romania</p> <p>A leading technology services provider and software product development company.</p> <p>I am currently working as technical lead on mobile technologies. The project is a Microsoft SharePoint client implemented both on Android and iOS platforms.</p> <p>Previously, I have participated in the development of Spring Data SimpleDB, an in-house opensource project. The Spring Data SimpleDB module aims to provide a familiar and consistent Spring-based programming model for Amazon SimpleDB while retaining domain-specific features and capabilities. Key functional areas of Spring Data SimpleDB are a POJO centric model for interacting with a SimpleDB domains and easily writing a Repository style data access layer.</p> <p>GitHub (https://github.com/3pillarlabs/spring-data-simpledb)</p> <p>As a first assignment in the company, I have worked as a Senior Software Developer on a market intelligence project employing several Java technologies in the backend (Hibernate, Google Guice, Apache Shiro) and JavaScript technologies in the frontend (jQuery, Backbone, Bootstrap). I have been responsible with development of modules both in the backend and the frontend.</p> |
| FEBRUARY 2012
JULY 2012 | <p>Programmer at NOITSO, Copenhagen, Denmark</p> <p>A company focused on delivering business-critical IT solutions, helping companies to optimize their workflows.</p> <p>At noitso I worked as a developer focused on C# and ASP.NET and a few technologies .NET, ADO.NET Entity Framework, Windows Workflow Foundation</p> |
| FEBRUARY 2011
JULY 2012 | <p>Programmer at PIT LAB, IT University of Copenhagen</p> <p>The Pervasive Interaction Technology Laboratory hosts research projects run by the faculty of the IT University of Copenhagen and collaborating institutions.</p> <p>My main responsibilities in the lab were to fulfill technical tasks in the MONARCA Project, being constantly involved in the development, maintenance and testing of the <i>Android client application</i>, the <i>infrastructure</i> (including server management) and of the <i>web application</i>. The central infrastructure consists of a server running couchDB, and apache server. Each user has an Android enabled device running the client application and a mobile version of the couchDB, linked to the couchDB instance running on the central server.</p> <p>Besides the MONARCA Project, I was also involved in ad-hoc programming tasks, as help in other projects was required.</p> |
| AUGUST 2010
MAY 2007 | <p>Software Developer at Océ srl, Timisoara, Romania</p> <p>Océ, Netherlands based company, is a leading international provider of innovative digital printing systems, software and services for the production, reproduction, distribution and management of documents. Supporting the workflow solutions are Océ digital printers and scanners, considered the most reliable and productive in the world.</p> |

Tcl/Tk developer

Responsible for the development and maintenance of a tool used for automated execution of test cases. The tool and the associated scripts are developed in Tcl/Tk. Also part of the responsibilities was the update of the project documentation: design papers, interface descriptions and user manuals.

Java developer

Part of the team developing the graphical user interface for the touch-screen based Océ printers. Enhanced the functionality and refactored existing code. Responsible with the development of graphical elements and custom *Swing* components.

PUBLICATIONS

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| OCTOBER 2011 | <p>The MONARCA Self-assessment System
<i>Persuasive Personal Monitoring for Bipolar Patients</i>
(http://www.itu.dk/people/bardram/pdf/ih2011.monarca.system.pdf)
Regular Paper for International Health Informatics Symposium, Miami, Florida, USA, January 28-30, 2012</p> |
| MAY 2011 | <p>The MONARCA Self-assessment System
<i>Persuasive Personal Monitoring for Bipolar Patients</i>
(http://pervasivehealth.org/2011/?page_name=demos)
(won the award for Best Application Demo)
Demo for Pervasive Health 2011, Dublin, Ireland</p> |

EDUCATION

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| SEPTEMBER 2010
PRESENT | <p>M.Sc. in Software Engineering
IT University of Copenhagen, København, Denmark</p> |
| 2004
2009 | <p>Diploma Engineer in Systems Engineering and Computers Engineering,
“Politehnica” University of Timisoara, Romania, College of Automation
and Computers.</p> |
| 2000
2004 | <p>Class of Mathematics-Informatics at the “Mihai Eminescu” National
College, Oradea, Romania.</p> |

CERTIFICATIONS AND TRAININGS

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| JANUARY 2010 | <p>Sun Certified Programmer for the Java 2 Platform, Standard Edition 6.0.</p> |
| 2007 | <p>Test and Validation course, by Océ.</p> |
| 2005 | <p>Attended and successfully graduated the first Cisco Certified Network Associate module.</p> |

UNDERTAKEN PROJECTS

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| FEBRUARY 2012
JUNE 2012 | <p>Realms - Creating Location-Based Services through Configuration
Paper: (http://itu.dk/people/ksza/reports/realms_project_report.pdf)
Code: (https://github.com/ksza/itu_realms_project)
Deployed App: (http://nexusd.org:8080/realms_configurator)</p> |
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	<p>An an end-user programming system - Realms - that allows users to augment physical locations with digital information. With Realms, users can augment physical locations with information through a web-interface centered around a simple map. The information is thereafter made available on the mobile phone application depending on basic rules and the behavior of the mobile phone user.</p>
SEPTEMBER 2011 DECEMBER 2011	<p>Electronic Announcement Board</p> <p>Code:(http://subversion.assembla.com/svn/jsf2_websop/trunk/web_shop_spring)</p> <p>Deployed App:(http://130.226.142.171:9080/shop_spring)</p> <p>Developed using the following Java-based technologies and frameworks: JSF 2.1, Hibernate, Spring 3.</p>
FEBRUARY 2011 APRIL 2011	<p>"LaPizzeria" webshop</p> <p>(https://bitbucket.org/KarolySzanto/lapizzeria_jsp)</p> <p>(https://bitbucket.org/KarolySzanto/lapizzeria_jsf)</p> <p>A web application developed for didactic reasons, using Java-based technologies and frameworks: Servlet and JSP, JSF and Hibernate. The applications were deployed in Tomcat.</p>
	<p>Jolie</p> <p><i>Java Orchestration Language Interpreter Engine</i></p> <p>(http://www.jolie-lang.org)</p> <p>A programming language based upon the service-oriented programming paradigm, suitable to create new services from scratch or to compose existing ones in order to obtain new functionalities.</p> <p>I have contributed to this project implementing a few missing operators (+=, -=, /=, *=) and implementing a new communication protocol based on JSON-RPC.</p>
SEPTEMBER 2010 DECEMBER 2010	<p>JCAF</p> <p><i>The Java Context-Awareness Framework</i></p> <p>Code: (https://sourceforge.net/projects/jcaf)</p> <p>Paper: (http://sourceforge.net/projects/jcaf/files/documentation/RESTful_jcaf_for_Android.pdf)</p> <p>Context-awareness is a key concept in ubiquitous computing. JCAF is a Java-based context-awareness infrastructure and programming API for creating context-aware applications on the J2SE platform. I have extended the framework to support the development of context-aware applications on the Android platform by implementing a communication mechanism based on RESTful web services (using Restlet), as an alternative to the existing RMI based communication. I demonstrated my work with an Android application written on top of the extended framework.</p>
	<p>Bicycle Shop</p> <p>(https://github.com/ksza/Bicycle-Shop)</p> <p>An IT solution for a fictive bicycle shop enabling users to easily create custom bicycles from available parts. Invoking a model driven approach, the application was developed as several Eclipse plugins, making use of EMF, GMF, XText and XPand.</p>
	<p>Fluid Photo Browser</p> <p><i>A multi-device photo browser</i></p> <p>(https://github.com/ksza/Fluid-Photo-Browser)</p> <p>The application enables users to move photos from smart phones, holding personal information, to a shared/public tabletop where many people can browse the photos all together</p>

SEPTEMBER 2009	Kigun
APRIL 2010	<p><i>A dental cabinet management project</i></p> <p>The project is built upon the Apache Felix framework (an open source implementation of the OSGi Release 4 core framework specification) using the following technologies: Hibernate, Swing, JasperReports</p> <p>The team has three members (including myself) working from different geographical locations, practicing agile development.</p>
March 2009	Diploma Engineer project
JUNE 2009	<p><i>Automation of Complex Design Flaws Detection</i></p> <p>(http://cdn.bitbucket.org/KarolySzanto/thesis/downloads/KarolySzanto_thesis.pdf)</p> <p>An Eclipse plug-in that detects design problems in projects and gives restructuring hints based on design patterns.</p>
2008	<p>Mini Java compiler</p> <p>(https://github.com/ksza/MiniJavaCompiler)</p> <p>Mini Java is a subset of Java. The compiler is written Java using the JavaCC parser generator.</p>
2007	<p>Download Accelerator</p> <p>(https://github.com/ksza/DownloadAccelerator)</p> <p>A client-server application written in standard C, under Unix. The application offers the possibility to pause and resume a download. The client can download from multiple servers simultaneously.</p>
	<p>YAGLE</p> <p>(https://github.com/ksza/Yagle)</p> <p>On-line multiplayer arcade games. Written as a Java client-server application.</p>
2005	<p>Adolix Wallpaper Changer</p> <p>(https://github.com/ksza/Adolix-Wallpaper-Changer)</p> <p>A desktop wallpaper manager, written in Delphi (http://www.adolix.com/wallpaper-changer).</p>
2003	File Manager Application
2004	<p>(https://github.com/ksza/KNavigator)</p> <p>Clone of the well known DosNavigator file manager.</p>

TECHNICAL SKILLS

PROGRAMMING SCRIPTING	Java, C, C++, C#, Pascal, Delphi, ASM, PL/SQL javascript, Tcl/Tk, Bash
TECHNOLOGIES	XML, Swing, log4j, junit, Spring, Hibernate, Restlet, Servlet, JSP, JSF, MySQL, Microsoft SQL Server, couchDB, .NET, ADO.NET Entity Framework, Windows Workflow Foundation
OPERATING SYSTEMS	MS-DOS, Windows, Linux/UNIX, Android
OTHER	<p>Knowledge of Eclipse plug-in development environment and model driven development technologies (EMF, GMF, XText, XPand)</p> <p>Intermediate knowledge of \LaTeX</p> <p>HTML, CSS, jQuery.js, Backbone.js, Bootstrap.js, require.js</p>

LANGUAGES

ROMANIAN	Mothertongue
HUNGARIAN	Fluent
ENGLISH	Fluent

ABILITIES AND APTITUDES

Ability to work under pressure. Creativity, initiative and the ability to work both independently and as part of a team. Good sense of humour.

INTERESTS AND ACTIVITIES

I enjoy sports, playing different kind of musical instruments (guitar and didgeridoo), traveling and culinary arts.

REFERENCES

Available upon request.