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Zsolt Szilárd Sztupák

Full Stack Developer / Platform Engineer

Personal profile

I am a polyglot developer who likes challenges and is never afraid of diving into deep territories to get a better understanding of the big picture.

During my career I have been involved with various frameworks and tools, and I have solved various technical and non-technical challenges ranging from debugging and reverse-engineering systems to hiring and managing a small team of developers. I am always keen to learn more every time, and I am always happy to pass on my knowledge to anyone who wishes to learn more.

Experience

Gamesys Ltd Senior Software Engineer - Java, Ruby, DevOps, London, UK, 2016-.

Technologies used: Java 8, ES6, React, Node.js, Python, Dropwizard, Ansible, Docker, CentOS, Kubernetes, Apigee, OAuth, JWT, GoCD, Ruby, Ruby on Rails As a developer in the Platform team, my main responsibilities were:

- Helping and coaching other team and company members with issues related to the backend
- Managing the internal staging environments including the puppet and ansible scripts that provision and manage them
- o Developing changes for the microservice framework, build pipelines and the backend architecture
- Conducting phone and face to face interviews for Java and Ruby candidates. Designing some of the interview exercises
- Developing changes related to security to the frontend applications

Some of my achievements:

- Upgrading the internal microservice framework to Java 8
- Upgrading the deployment scripts to Ansible 2
- Investigate kubernetes, and how we might be able to adapt it for our purpose
- Investigate the options, and implement a spike on how authentication should work between the backend, frontend and our patrons

Gamesys Ltd Full Stack Developer, London, UK, 2013-2015.

Technologies used: Ruby, Ruby on Rails, Java, Dropwizard, Active Directory, DB2, MySQL, Docker, Puppet, Ansible, Neo4J

As a developer in the Member team, my main responsibilities were:

- Adding fixes and new features to the the internal customer support application built in Ruby on Rails
- Change and add new features to the backend applications written in Java
- o Coaching other team and company members in Ruby and Ruby on Rails
- o Helping other team and company members with issues related to Git, Ruby, Java and
- Active member of the API Team to help create a standardised API for the backend services

Some of my achievements:

- Design and implement the two factor authentication support for member logins
- Upgrading the applications from Ruby 1.8 to 1.9 and 2.1
- Upgrading the applications from Rails 2.3 to 3.0 and 3.2
- \circ Change the deployment of the application to a docker based deployment model

Cancellar Informatics LLP Owner - IT Manager, Budapest, Hungary, 2010-2013.

Owner of small umbrella company employing 3-5 people. Handling contacts with client, accounting and recruitment. Working for the following companies:

• BME-AutSoft Ltd.

Technologies used: Java, Linux, GSM/AT commands, Android SDK, Android NDK, Android platform, OpenCV

- Main responsibilities:
 - · Acquiring low-level GSM engineering information from the radio firmwares of Samsung-made Android smartphones
 - · Android platform building for an i.mx5 based e-ink device.
 - · Changing the platform code to support the specialities of the e-ink display (like removing visual animations, or creating an e-ink friendly keyboard application)
 - · Creating applications that can recording voice calls and measure voice call quality
 - · Creating applications using OpenCV to process the image of the camera in real-time
- Major achievements:
 - Reverse-engineer the firmware of Samsung Galaxy S, so it could be used to record calls and measure voice quality
 - · Reverse-engineer the firmware of the i.mx5 e-ink device, to make it possible to change the firmware as required
- Famillio Investment Ltd.

Technologies used: PHP, Symfony, MySQL, JQuery, node.js, REST, SOAP, Facebook API, git

- Main responsibilities:
 - · Creating and administering the PHP/Symfony based insurance broker web-site of the firm.
 - · Writing clients for various third-party web services
 - · Gathering user information using Facebook Graph API
 - · Creating reports based on user supplied data
 - · Creating and administering sister-sites
 - $\cdot\;$ Keeping the business logic up-to-date with the constant changing need of the insurance companies
 - Keeping the always-changing interfaces with the insurance companies' web/services up-to-date
- Major achievements:
 - · Designed and built the complete frontend site from ground up in only a few months
 - Designed and built a DSL to easily manage the specific quote formulas of the insurance companies
- V-TÁV R&D Ltd.

Technologies used: 8051, ARM, NMEA, GSM/AT commands, Ruby on Rails, node.JS, PostgreSQL, Google Maps, OpenStreetMap

- Main responsibilities:
 - Programming 8051 and ARM based GPS devices
 - \cdot Creating a new firmware for the devices, that fits the needs of the company
 - \cdot Creating the web front-end of the product
- Major achievements:
 - · Completely reverse-engineer the firmware of the demo devices
 - · Finding and fixing issues in the schematics of the original device

National Audiovisual Archive – Neumann Ltd.

National Audiovisual Software engineer, Budapest, Hungary, 2008-2010.

Technologies used: Ruby, PHP, Java, Tamino XML Server, OAI-PMH, Dublin Core

Main responsibilities:

- $\circ\,$ Supervise the development of a new product made by another company
- Gathering requirements and writing specifications to the new product
- Creating scripts to download and display recent events that are probably important to the archive
- Creating apps to ease the archiving of the national radio stations
- o Developing a MPEG-1 Layer II based audio cutter to be used by the archive
- Building various other XML based applications

Major achievements:

- Finding common issues with the workflow of the company and developing small in-house products, to ease some of the repetitive tasks occurring in the video archive
- Creating in-house patches for the old product, that didn't had any kind of APIs or ways to extend functionality
- Creating an app that would determine the exact time a show started on television

Eötvös József College System Administrator, Budapest, Hungary, 2007-2009.

Technologies used: Linux, Windows Server, Active Directory, Kerberos, Ruby on Rails, Debian, Gentoo

Programming tasks:

- Developing the intranet site of the Eötvös József Collegium using Ruby on Rails
- integrating the site with Active Directory

System Administration tasks:

- o Building and administering a Windows Server 2008, Gentoo Hardened Linux and Endian Firewall based system
- Solving their interoperability issues using Kerberos and LDAP

Major achievements:

- Re-cabled the whole site to use UTP CAT-6 cables
- Established full Wi-Fi coverage in the institute

Eötvös Loránd University

Undergraduate Teaching Assistant, Budapest, Hungary, 2006-2009.

- o Undergraduate Teaching Assistant in the following courses for BSc Computer Science students:
 - Introduction to Programming I, II (Formal verification based on Dijkstra's theorems)
 - Compilers I, II (x86 assembly programming and introduction to formal languages)
 - Operating Systems and Hardware Architecture
 - Functional Programming I (Introduction to Haskell programming)
- Helped writing one of the lecture books titled "Introduction to Programming"

Personal Open Source Projects

Magic Lantern, 2011-2013.

Porting the firmware to Canon 60D; Adding lua and loadable binary plugins support

Technologies used: ARM, C, Lua, Reverse Engineering

NHaml View Engine - NHamlSense, 2010.

Collaborating on the NHaml View Engine for ASP.NET MVC, including adding IntelliSense support for the view engine

Technologies used: C#, F#, CodeDom, ASP.NET MVC

Shaml Architecture – ASP.NET MVC for Mono, 2010.

Creating a version of ASP.NET MVC with NHibernate that works under Mono environments

Technologies used: C#, ASP.NET MVC, Mono, NHibernate, Fluent NHibernate

Lua 5.1 Decompiler, 2009-2015.

A decompiler and disassembler for compiled Lua 5.1 scripts

Technologies used: Lua. C. Windows Mobile

Education

MSc Budapest University of Technology and Economics, Software Engineering, Budapest, Hungary, 2012-2014

BSc Eötvös Loránd University, Computer Science, Budapest, Hungary, 2004-2009 BSc in Computer Science - 264 ECTS - Excellent grade

Other projects

- University Projects AMORG Member of the Applied Mobile Research Group. Involved in projects including Android platform building and OpenCV based image processing
 - HypereiDoc Creating a collaborative document-editing system, to be used by phylologists to digitalise ancient greek texts.

- Android Projects USB Host Controller Application for managing USB devices
 - AllwinnerMod Application for managing Allwinner A10 based tables
 - USB host mode kernel for Samsung Galaxy S and variants
 - Android kernel and system building for Allwinner A10 tablets

- Open Source Projects ADB Putty Putty enhanced with the ability to connect to Android devices
 - $\circ\,$ Ian Out 2000-2005 Developing a Visual C++ and SDL based RPG game

Others

- Conference talks, lectures National DevOps Conference, London, UK, 2017
 - Gamesys: The Road Taken Talk about introducing DevOps practices in a large company with lots of legacy projects
 - o Socrates UK, Surrey, UK, 2017
 - Participant in the unconcerence proposing two session around introducing DevOps practices and microservices inside companies
 - o Jellyfish meetup, London, UK, 2017
 - Containers Talk about issues when introducing docker as a deployment tool
 - Gamesys Ltd., London, UK, 2016
 - Your own personal cloud Brown-bag session on setting up a cloud environment on CoreOS with Terraform and Kubernetes
 - o Babes-Bolyai University, Cluj-Napoca, Romania, 2007 Visiting lecturer on Designing and programming embedded systems
 - o National Students' Research Conference 2008-2009
 - Digitalizing, editing and publishing ancient greek texts (national 3rd place in 2009)
 - Managing layered files using XML (national 2nd place in 2009)
 - ORM based methods to link different types of databases (local 2nd place in 2009)

- IT interests Programming languages Ruby, JavaScript, Java 8, various functional languages
 - Web-development Ruby on Rails, React.JS
 - o Mobile-development Android
 - Operating systems Ubuntu linux, CentOS, CoreOS
 - o Information systems SQL: MySQL, PostgreSQL, DB2
 - o **DevOps** Ansible, Docker, Puppet, Kubernetes
 - Embedded systems Programming PIC, 8051 and ARM based microprocessors
 - Others LaTeX
 - Competitions
 - ACM (participant in CERC 2006, 2008)
 - Participant of Google Code Jam, and Facebook Hacker Cup competitions each year
 - Participant of the finals of the 11th and 13th Challenge 24 2011, 2013
 - 1st place in the National Ericsson C++ Programming Contest 2012
 - 2^{nd} place in the National Bank Tech Java Challenge 2014

- Others Language skills: English (C1), German (B2), French (A1), Swedish (A1), Hungarian (native language)
 - Driving Licence: Categories A (since 2011) and B (since 2003)