

Tamás Szirbucz - Freelance Software Engineer

✉ szirbucz.tamas@gmail.com

☎ +36 70 411 3157

💬 szirbucz.tamas



I started my career as Software Engineer in 2008. I gained experience in several fields: embedded systems, compilers, IT security and web application development. On my last workplace I worked as a Lead Java Engineer, where I had the chance to improve my leadership skills as well. I'm a freak of code quality and performance, therefore I always take care about testing and measurement, since what is not measured, can not be controlled.

Expertise

Java Spring Framework Spring Data Spring Security JPA JUnit MySQL MongoDB HA-Proxy Hazelcast Kafka
AngularJS ReactJS Selenium Performance optimization GDPR Clean Code Object Oriented Design Architecture Design
Continuous Deployment HTML5 CSS3 Agile Kanban

Work Experience

EPAM Systems - *Lead Software Engineer* (2016-05-02 - 2018-10-31)

I led the development of a performance review tool with Java Spring based back-end and AngularJS based front-end. We used Kanban methodology and continous deployment with Unit-, Integration-, E2E- and manual tests, static analysis, code coverage, style check and code review in its pipeline. We worked in cooperation with remote QA team and management.

- Massive performance improvement
- GDPR compliance
- Extend CD pipeline with Unit test coverage
- Introduced Apache Kafka and moved all external APIs to it
- Change JSP parts to Angular front-end

Balasy IT Security Kft - *Software Engineer* (2014-09-01 - 2016-04-29)

Application layer proxy firewall

- Improvement of the user interface (GTK)
- Extended in-house build tool with useful features
- Found a "wrong size of NULL" bug in a Linux kernel lib
- Worked on Content Vectoring interface.

Hightec EDV-Systeme GmbH - *Software Engineer* (2013-09-01 - 2014-07-31)

Development of GCC compiler backends for several embedded architectures.

- Implement XML export of linker map and objdump
- Introduced instruction set of new CPU version into our assembler
- Developed compile time optimizations

Hightec Hungary Kft - *Software Engineer* (2011-03-01 - 2013-08-30)

Development of GCC compiler backends for several embedded architectures.

- Introduced support of new CPU vendor
- Actively participated in the ISO-26262 audit of the tool

Department of Software Engineering, University of Szeged - *Software Engineer* (2008-05-05 - 2011-02-28)

Implement Procedural Abstraction compiler optimization

- 10-20% less binary size on popular open source projects.

Multifloor blueprint display integration with Open Street Maps

- C# & ASP.Net administration module for add and set position of blueprints
- Extended JS Map tool with controller for changing floors

Development of Webkit browser engine

- JIT optimizations
- Performance measurement

Sensor network for check state of floodlight

- Kernel module for own sensor HW
- Bash scripts to collect sensor data from several nodes into one XML

Education & Training

Program Designer Mathematician, Master - *University of Szeged* (2005-2011)

- Java, C/C++, C#, HTML, CSS, XML
- Databases (SQL, PL/SQL, normalization)
- Software Engineering Processes
- Formal Languages and Automata
- Artificial Intelligence
- Image Processing

Doctoral School of Computer Science, PhD - *University of Szeged* (2011-2014)[unfinished]

- Software Metrics
- Reverse Engineering
- Refactoring
- Machine Learning
- Natural Language Processing
- Teaching experience:
 - Programming Languages (Smalltalk, Haskell, Prolog, Occam)
 - Basics of Programming (C)
 - Operating Systems (Bash & Bat scripting)
 - Parallel Programming (Java concurrency, Occam, PVM)

Java Academy - *EPAM Systems* (2016)

- Java Fundamentals
- Spring Framework / MVC / Data / Security
- Hibernate, JPA, SQL
- OOP Design Patterns and Principles
- Web Application Development
- Building Web Services
- Unit testing, Mocking, TDD
- Clean Code
- Agile Methodologies
- Front-End technologies
- Version Control and CI

Introduction to Management - *EPAM Systems* (2017)

- Leadership and Team Building
- Motivation
- Time Management
- Negotiation
- Project and Delivery Management