

# Martin Bažík

PHP Architect / Backend Developer

## ABOUT ME



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## PHP Architect with a knack for User Experience

I am a PHP developer with focus on system architecture. My specialties are robust, distributed and real-time applications. I use leading edge technology, but do not avoid bleeding edge when appropriate. I use Nette Framework which allows me to build fast and robust applications.

I follow current trends in web development and actively search for new technology and practices that can help me to build better applications and become a better developer.

Since my high school studies I have strived to desing for the best user experience. As a backend developer I focus on the information architecture aspect of UX, but I know my way around user interface design too.

# EMPLOYMENT

## **Lead developer - tripin.sk** - 2012 - present

*Tripin*

Leading the development of car sharing platform, managing the development process, UX

## **Freelance developer** - 4/2013 - present

*Contracting for dotblue.nl and other clients*

Mostly backend development, refactoring of code, bringing new features to clients, making their apps more performant, realtime features integration

## **Senior PHP Developer** - 10/2012 - 04/2013

*Fatchilli.com*

As a senior developer my responsibilities included team leading, system architecture and design. I have also assumed a role of technology leader, bringing new technology to the company. Here I worked on the RTVS project. The project was discontinued by the customer, reasons unclear.

## **Backend Developer** - 09/2011 - 09/2012

*Digita.sk*

Here I worked on the jobzine.sk social network as the lead developer and architect of the system. Besides that I developed a few smaller applications such as a helpdesk system, discussion system in the style of Facebook and some others. As the main and only developer i designed the whole system, accompanying services and database. I was also responsible for setting up the servers.

## **IT Division head** - 04/2010 - 08/2011

*Exprestlac.sk*

As a fresh graduate I was given a project of considerable seriousness. Here I could practice my UX skills by wireframing a few user interfaces. One of the interfaces included the intranet system I then worked on. After a few months of solo work I was given a remote team of developers to help with the growing system.

# PROJECTS

## **saleschamp.nl**

Description: An application for door to door sales agents

My role: backend developer, bringing realtime features to the app, refactoring

Technologies used: php 5.4, nette framework 2, dibi, mysql, socket.io, gearman

## **New RTVS.sk national tv and radio website**

Description: A new website for slovak national TV and radio. Includes frontend website and CMS.

My role: main programmer for the frontend system, frontend system architect, team leader

Technologies used: php 5.4, nette framework 2, dibi, mysql, elasticsearch, rabbit mq, zero mq, jqeury

## **Tripin.sk carpooling application**

Description: An application enabling users to share a ride.

My role: main programmer, system desing and architecture, services design, spatial features integration

Technologies used: php 5.4, nette framework 2, mongodb, elasticsearch, java, rabbit mq, node.js, socket.io, jquery

## **Jobzine.sk social network**

Description: A social network with the mix of Facebook, Twitter, Linkedin, about.me and flipboard functionality. Includes as realtime activity stream in Facebok style.

My role: main programmer, system desing and architecture, services design

Technologies used: php 5.3/5.4, nette framework 2, mongodb, ajax push engine, rabbit mq, redis, parallel programming, distributed services, jqeury

## **Backend information system for exprestlac.sk**

Description: A backend system for employees management, orders management, invoices management, integrated helpdesk, integrated IVR menu, realtime caller identification

My role: main programmer, system desing and architecture, user interface design, business processes analysis, team leading

Technologies used: php 5.2/5.3, nette framework 1, ajax push engine, dibi, mysql, server side push, realtime, javascript, ajax, html, css, jquery

Private projects (in various states of completion):

## **Mazagran.eu - translation toolkit**

Description: Translation toolkit for applications built with Nette framework

Technologies used: php 5.3, nette framework 2, mongodb, ajax, redis, jquery

## **Watchdog.pagodabox.com - live error monitoring**

Description: Realtime error monitoring for applications built with Nette framework

Technologies used: php 5.3, nette framework 2, mongodb, ajax, redis, pusher, jquery

## **hladamdoktora.sk - spatial enabled doctor search application**

Description: Find a specialist near you

Technologies used: Technologies used: php 5.3, nette framework 2, mongodb, ajax, redis, google maps, jquery

## **Unnamed social network**

Description: A social network about night life and events

Technologies used: php 5.4, nette framework 2, neo4j, elasticsearch, ajax, redis, jquery

# EDUCATION

## **Human Centered Informatics** 2010 - 2012

*Aalborg University, Denmark*

To further my knowledge in the field of Human Computer Interaction and User Experience I went to study at the prestigious Aalborg University. Here I came across some very interesting and advanced theories about human computer relationship. The theoretical studies were accompanied by practical projects where we worked with local companies.

## **Human Computer Interaction, Data Warehouse** 2009

*University West, Sweden*

Erasmus study. I rediscovered my passion for User Experience with the Human Computer Interaction class. I passed with flying colors. Data Warehouse class proved to me that i have a knack for database design.

## **Information Systems Management, Management** 2005 - 2010

*Comenius University, Slovakia*

Even though I did not continue in pursuing education in computer science, in the end the computers came back to me. Bachelor's thesis was purely from the economic area. For my masters I chose a theme that would shape my future career: software engineering. I designed and built a prototype of an exams management information system that was supposed to solve problems the school had with exams management. A commercially sold system introduced in the year of my graduation made my project be only an exercise in systems engineering.

## **Informatics** 2001 - 2005

*Gymnázium Jura Hronca(High School)*

Prestigious high school in Slovakia. The class specialization was in informatics. Lessons with the legendary professor Demacek sparked my interest in informatics. Already at this time I found tweaking the user interface of my Delphi programs more fun than coding solutions to mathematical equations.

# MY SKILLS

## Programming

PHP - expert  
HTML - expert  
CSS - advanced  
JavaScript - advanced  
AJAX - expert  
node.js - basic  
java - basic

## Databases

MySQL - advanced  
MongoDb - advanced  
elasticsearch - intermediate  
Neo4j - basic

## Languages

slovak - native  
czech - almost native  
english - expert  
german - advanced  
swedish - basic  
danish - basic  
japanese - basic

## Other

Rabbit MQ  
Zero MQ  
Wireframing  
UX  
WebSocket Application Messaging Protocol

## My toolkit

My current toolkit which components I have assembled in the course of my developers career includes among other:

- **PHP 5.4**
- **Nette framework** - lightweight and robust PHP framework
- **Symfony 2 components** - console, event dispatcher and others - best addons for Nette Framework
- **RabbitMQ** - message queue server, enables to build distributed systems
- **ZeroMQ** - sockets on steroids, used for communication between various parts of systems
- **node.js(socket.io)** - for server side push, websockets enabled applications, and for some backend development
- **java** - for special functionality available only in java
- **mongodb** - high performance document db with spatial features
- **mysql** - traditional relational database
- **neo4j** - graph database, the future of database systems
- **elasticsearch** - for search
- **redis** - for cache
- **supervisord** - for running daemon scripts
- **jQuery** - for DOM effects and AJAX
- **Guzzle** - php http client for consuming apis
- **Ratchet** - php websocket and wamp server