

Nathan Bijmens

INTRODUCTION

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I am Nathan Bijmens, a developer with a passion for great code, the web and Big Data. I am interested in programming and system administration, especially where they meet, from scaling platforms to designing the architecture of new and existing products and everything in between.

I am focused on data analysis and building Big Data Applications. I regularly use Hadoop, in combination with Hadoop Pig and Hive. Most of my experience is at the infrastructure side, but I am learning more about Business Intelligence and visualizing big data. I follow the rise of real-time big data closely, actively developing applications on top of Storm. I advise on Big Data Strategies and evangelise Big Data to clients and at conferences.

I have a lot of experience with PHP, Java and other related technologies like MySQL, nosql, memcached, nginx and a lot more. I strongly believe in unit tests and design patterns, to write precise and easy maintainable code that works.

I am a passionate linux system engineer, follower of the devops movement. Using Puppet and Ganglia to automate and monitor deployments.

I am inquisitive, I love learning about new things and improving what I know. I am very passionate about what I do, and I have strong analytical skills.

EXPERIENCE

As from April 2012 I work for **DataCrunchers**, as a **Hadoop and Big Data Consultant**. DataCrunchers is the leading Belgian consultancy firm around everything Big Data. I co-develop on our internal Semantic Analysis Engine on top of Storm, I co-presented our Hadoop Ecosystem course, I created a new website using Drupal and I am responsible for our Microsoft Big Data partnership.

HSHMRK

From December 2012 and ongoing.

Defining and implementing the architecture for [hshmrk](#), a data visualization startup. The application backend is written as a Jersey REST (Java), service, using Elasticsearch as storage. The frontend is a AngularJS and D3 webapplication. This approach allows us to easily scale.

Java

ElasticSearch

AngularJS

D3

Jersey

maven

Jackson

Spring DI

JUnit

Data Visualization

Software Architecture

Ewals Intermodal

From October 2012 and ongoing.

Developing Oracle database views for integration of Greencat and Crystal Reports.

Oracle

Greencat

Crystal Reports

IHarvest

I co-develop and I am the current lead on the IHarvest project. It is a distributed HTTP Fetcher & Parser on top of Storm, the results are stored on HDFS for more extensive querying using Hadoop.

Storm Java HDFS Hadoop

Semantic Analysis Engine

I co-develop on our internal Semantic Analysis Engine on top of Storm and ElasticSearch. The frontend is being written in Jersey & AngularJS.

Storm Java ElasticSearch AngularJS Jersey Bootstrap

Microsoft Big Data Partnership

Responsible for the contact with Microsoft.

Speaker at the Microsoft Inspirience Day about Big Data.

datacrunchers.eu website

Creating a Drupal based website, hosted on Windows Azure. I touched all aspects of creating this website, from designing, implementing to copy writing.

Windows Azure Bootstrap CSS HTML5 Copy Writing IIS Management Drupal

Business cards & various graphic design

Designing the DataCrunchers business cards and a company flag.

Graphic Design Inkscape QR

Internal test cluster

Setting up an internal Hadoop, ElasticSearch & Storm test cluster using Puppet and Cloudera Manager. I created some Puppet modules to manage [Storm](#), [ElasticSearch](#) and [Ganglia](#).

Cloudera Manager Storm ElasticSearch Puppet Hadoop Hadoop Pig HDFS Ganglia Zentyal

Since March 2007 I am the **Consultant, Managing Director and founder** of **Servs BVBA**; mainly active as an IT consultant in the field of Big Data & hadoop, web applications (PHP, sql, scalability, best practices, ...), devops & linux system administration and hosting applications.

From March 2011 till April 2012 I worked for **iController**, as **Lead Application and Warehouse Developer**. We build a credit management web application, written in PHP. I managed a small group of developers, took the lead on everything technical and coordinated with the directors, partners and clients.

My job involved lots of PHP, refactoring, performance tuning, system engineering and bits of data analysis.

Lead Developer iController

I developed our credit management web application in PHP, I managed a small group of developers, took the lead on everything technical and coordinated with the directors, partners and clients.

Requirement Analysis PHP Symfony Propel PHPUnit FPDF Jenkins ant git MySQL JQuery
Prototype PDO XML XSchema

iController Server Setup

I virtualized and automated the whole iController server setup using Puppet. I created and extended several open-source Puppet modules.

Puppet libvirt KVM Ubuntu MySQL PHP Release Management Jenkins git Amazon S3 BIND ssh
LVM

iSubscriber

Creating a small web application to organize and input subscriptions into Octopus.

MySQL PHP Symfony

Various clients

From July till November 2011.

1. Analyzing the requirements, estimating and taking the lead.
2. Extracting data from various Accounting software to iController.

Accounting Software

AS400

ETL

XML

XSchema

Oracle

MSSQL

Navision

LeasePlan

From July till November 2011.

1. Analyzing the requirements, coaching my co-developers and coordinating with the client.
2. Extracting data from and linking SAP FI to iController.
3. Developing a custom workflow engine.

SAP FI

AS400

ETL

XML

From April till August 2011 I worked as a consultant for **Truvo**, the Belgian yellow pages, doing a **hadoop deduplication** job. I used Hadoop & Hadoop Pig, wrote custom UDFs in Java for Ngram matching and solved performance issues. At first Amazon Elastic MapReduce was used, later I setup a Hadoop cluster.

At the 2011 edition of the **FOSDEM DataDevRoom**, an open source conference, I gave a presentation about **Hadoop Pig: MapReduce the easy way**, it was featured on the front page of slideshare.net.

From September 2010 till February 2011 I was employed at **Netlog** as a **Warehouse and Web Developer**, creating an analytical warehouse based on Hbase. I also created large parts of the processing infrastructure using Hadoop and Hadoop Pig. I also advised on new technologies, GIT migration, best practices & unit tests. Netlog is a social community network, with over 70 million members, mainly active in Europe and the Arabic world.

Warehouse Developer

Setting up the Hadoop infrastructure, analyzing data with Hadoop Pig and creating a dashboard using Symfony2 and Hbase & Thrift.

Hadoop

HDFS

Hadoop Pig

Syslog

Thrift

Hive

Hbase

git

Symfony2

Google Graphs

PDO

Memcached

MySQL

Twoo Core Framework Developer

Creating a new PHP Framework (no existing frameworks were allowed) as base for the new dating site Twoo. I advised on Design Patterns and Best Practices. I developed the Security and ACL platform as well.

PHP

HTTP

Request routing

Security

ACL

Design Patterns

Best Practices

Unit Tests

PHPUnit

git

Web Developer (Netlog)

I introduced an open source Event framework and presented it to my co-developers. I introduced new application log functionality, for logging to Hadoop. I evangelized Unit tests, including an initial implementation and presentations. I evaluated Redis, Memcached & Membase (now Couchbase).

PHP

PHPUnit

Unit tests

Syslog

Event framework

MySQL

Design Patterns

Best Practices

git

svn

git-svn

Memcached

Redis

Performance testing

Membase

From October 2009 to August 2010 I started working at **iController**, a small SME in Ghent, as **web application developer**. I developed a new, greatly improved debtor & credit management web application. We used the Symfony PHP framework as a starting point to create a stable and easy to maintain application.

In 2009 I was active as a consultant to a Dutch services organization. The assignment mainly consisted of **creating a link between existing systems and a new website**.

From 2008 till present I perform various **short term consultancy** tasks commissioned by **Sinergio**. For a **semi government organisation** I set up a new tomcat server and did a general check up on their Linux servers. For another company I configured an ASP.Net application and installed an IIS server. For **Sio Hosting** (Formerly Sinergio Hosting) I planned and executed the move from traditional servers to a virtualized xen cluster. I also check the integrity and security of their hosting platform on a regular basis. I advise them on strategic planning.

During 2004 – 2010 I advised on and co-developed for **4levels** several websites, backend systems and web applications.

During my secondary education I created a **PHP CMS**, with features as native PHP templates, module in module support (recursion) following a very basic MVC pattern. It was used and expanded by two web agencies to create over 30 websites.

SKILLS

Period 2005 - 2007

Institute University of Antwerp

Program Social-Economic Sciences

Period 1999 - 2005

Institute Hibernia Steinerschool in Antwerp

Program ASO, Higher Secondary education

Achieved in 2005