

CURRICULUM VITAE

PERSONALIA

Last Name : **Brasseur**
First Name : **Arne**
Gender : M
Nationality : Belgian
Date of Birth : 1983-01-29
Residence : Aarschot
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PROFILE INTRODUCTION

Arne is a freelance developer specializing in web and open source technologies. More than a typical technical type he is able to see beyond the code, to look at the real business and customer requirements. A flexible thinker he is able to quickly emerge himself into an existing project, making himself immediately employable for the task at hand.

Key strengths :

- Clearly understand and analyze problems to provide a customer centric solution
- Open character, multicultural attitude
- 'Pragmatic Programmer' attitude, focusing on agility, unit testing, refactoring, documenting

Objectives :

Freelance work in web development, using PHP (Drupal, Zend), Ruby (Rails, Ramaze), Python (Django, Pylons) or Javascript (jQuery, Dojo).

EXPERIENCE

03/2010 - 06/2010

Project : Creating a new integrated website for Harley Lovegrove

→ <http://www.harleylovegrove.com>

Harley is a change manager who also writes books and gives lectures on the subject. He found himself in a situation where he had a blog, a personal site and a site with e-shop for his book, all using separate platforms and technologies.

Tasks :

- Create a new website based on the Drupal CMS and the Übercart e-commerce platform
- Migrate existing data (blog posts, comments, static pages, products) to the new site
- Maintain the same URLs for search engine ratings
- Make the site more searchable for search engines (SEO)
- Create an updated modern looking layout

Activities :

- Setting up and configuring a Drupal install
- Making a selection of Drupal modules to achieve the desired functionality
- Creating custom modules when no existing module proved suitable
- Creating a graphical layout, then implementing it using PHP templates and CSS

- Provide training and guidance on how to use the system

Results :

- The customer has a more coherent on-line presence
- All content and menus on the site can be altered by the site owner
- Products can be added and edited by the site owner, rather than the developer
- Shipping is now calculated based on weight and destination, rather than using a flat rate per order
- Invoices and packing slips are generated by the system, rather than having to be made manually
- The site is more accessible by people using older browsers or screen readers

11/2009 - 02/2010

Project : Creating a Win32/C version of the z/OS Fileman module for CA GEN

CA GEN is a CASE tool that uses a high level language to specify data transformations. From this high level code platform specific code can be generated. Most development happens on the Windows platform, where C code is generated. For production a z/OS mainframe environment is used, and COBOL is generated.

CA GEN only allows access to relational databases. Fileman is a module that extends CA GEN to allow access to flat files. It was originally written in mainframe Assembler for performance reasons. Because of this programs using this module could not be tested on the Windows development machines.

Tasks :

- Reimplement the existing functionality in C
- Reverse engineer the CA GEN module interface
- Provide each component with unit tests
- Communicate with the end customer for in the field testing

Results :

- CA GEN code using the FILEMAN module can now be tested on Windows development machines

09/2009 - 11/2009

Belgian Post

Project : Maintenance of intelligent spreadsheet for order entry

For their mass mailing product 'Distripost' the Post (now Bpost) uses a spreadsheet form that customers can fill in. A selection can be made of the provinces/municipalities/towns that should be addressed. Several options regarding the type and format of the brochures can be selected.

The original developer had left the company and internal ICT refused to support his code. After the product evolved the form needed to be updated.

Tasks :

- Reverse engineer the workings of the spreadsheet
- Fix known bugs

- Add validation to avoid having to contact the customer for extra information
- Add new fields and options

Results :

- Relieved the sales team of long time annoyances
- Made the code better structured and maintainable
- Made previously hard coded settings configurable by the end-users
- Still used daily to place orders

09/2006 - 08/2007

Lorré Engineering

Function : **C++ Developer**

Lorré Engineering specializes in imaging solutions, especially scanning and OCR/OMR. The project concerned a bespoke application for a clinical laboratory. The application would process scanned forms, have them validated in several steps by a human operator, and then transmit this data to the LIS (Laboratory Information System).

Tasks :

- Communicate with the customer to gather functional requirements
- Implement the validation step, front-end (GUI) and back-end
- Implement the link to the LIS
- Implement a synchronization system to keep a working database of patients and doctors synchronized with the LIS database
- Implement a code generation system to allow database access using the DataMapper pattern
- Perform regular on-site testing, with the manual and automated work flow running in parallel
- Provide documentation and training

Activities :

- Develop GUI components and interfaces
- Analysis and implementation of business logic
- Relational database index optimization

Results :

After an iterative development process the final system was deployed, replacing a labor intensive manual input procedure with an automated scan/process/validate work flow. This allowed the laboratory to focus on its key activities, to process samples more efficiently and with a lower error rate.

Lorré Engineering has afterwards successfully resold this application to other laboratories.

OTHER EXPERIENCE

- 2002 – 2004 Maintenance mailinglist-system (Mailman) and wiki for community site (PHP)
- 2004 – 2006 Web programming (PHP), Sound technician for student radio station
→ <http://urgent.fm/>

Zhongwiki.com Wiki for students of Chinese (PHP)
→ <http://www.zhongwiki.com>

Ting Open source library to convert between phonetic transcriptions of Mandarin (Ruby)
→ <http://github.com/arnebrasseur/ting>

EDUCATION

2008 – 2009 Mandarin Language studies at Shandong University, China
(intensive language program)

2007 – 2008 Mandarin Language studies at Fengchia University, Taiwan
(intensive language program)

2002 – 2006 Msc Computer Science with Magna cum laude (4 year program)
Ghent University, Belgium
Specialization : Software Development
Master's Thesis : Java Implementation of a rule-based system on musical harmony

2001 – 2002 Audio Engineering Diploma; SAE, Rotterdam

TECHNICAL SKILLS

OS : Excellent knowledge of Linux systems (Debian, Red Hat, Ubuntu), sound knowlegde of MS Windows and Mac OS X

Programming : PHP, Javascript/Ajax, Ruby, C/C++, Java, Python, Perl, SQL, Bash/shell

Tools and Technologies : Apache, MySQL, PostgreSQL, Subversion (SVN), Git, VMWare

Web Technologies : (X)HTML, CSS, XML/XPath/XSLT, Ruby on Rails, Drupal, JQuery

Development/Office : Eclipse, Emacs, OpenOffice, MS Office

Other skills : Software Analysis and Development
Network Configuration (TCP/IP, firewall, routing, DHCP)
Server Administration

LANGUAGES

Dutch Native speaker

English Excellent, both spoken and written

French Basic speaking, medium understanding

Mandarin New HSK level 4 out of 6
Knowledge of simplified characters (Mainland China, Singapore) and traditional characters (Taiwan, Hongkong)