



Curriculum Vitae

John Bokma / Castle Amber

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Personal Details

Name John Bokma
Date of birth February 15, 1967
Email john@castleamber.com, mail@johnbokma.com
Languages Dutch (native), English (fluently)

Summary

Extensive experience as a OO programmer with Perl and Java (including J2EE components like: JDBC, servlets/JSP with Tomcat/Apache, and XML parsing). Multi skilled in Windows, GNU/Linux, IRIX. Effective, efficient, concise and creative worker. Self-employed as programmer, using "Castle Amber" for company name, since 1994.

Strengths

Creative brainstorming facilitator. Defines the problem. Finds practical solutions. Familiar with a wide range of tools and programming languages.

Education

- TH "Rijswijk" — computer science, Bsc (<http://thrijswijk.nl/>)
- University Utrecht — design of algorithms, MSc (<http://www.cs.uu.nl/>)

Interests

Reading (Science, Science Fiction and Fantasy), music, studying plants, fossils and wild animals, growing carnivorous plants, nature walking and cycling. Keeping my personal website <http://johnbokma.com/> up and running.

Experience

1994

Delfacto B.V.

Basic, ARM assembly, RISC OS — Extended existing software to support genlocking and added anti-aliasing. Developed a film editor that makes it possible to make parts of a frame transparent.

Transpute

Acorn Archimedes, Eagle MK2 video digitizer, ARM assembly, RISC OS — Development of a program to convert a movie to a serie of grey scale images for pattern recognition purposes.

- <http://www.transpute.nl/>

1994 - 1995

Castle Amber

C and ARM assembly — Developed a 16 channel telephone conversation recorder (PhoneBase). Designed part of the software and part of the hardware (digital sample card).

- <http://castleamber.com/>

Creaphoto

Basic, C, ARM assembly, RISC OS — Extended an image processing program with several additional operations. Speed up and optimization of the pixel reduction algorithm (eight pixels to one) used by the Creator application.

Ingenieursbureau Geodelta B.V

Acorn C, RISC OS — Development of a photo view application. Points with labels can be added to each image for calculating purposes.

- <http://www.geodelta.com/>

Exact Software Nederland

Microsoft C, in-house tool PMS (version control, bug reporting), Exact library, MS DOS, Windows 3.11 (WfW) — Conversion of many small DOS applications written in C to Windows 3.11 and replacing calls to the old (text based user interface) library with calls to the new Windows library.

- <http://exact.nl/>

Europium

Turbo C, MS DOS — Development of a program (WULBZ) that advises the user which insurance method to use for employees that become ill.

1996-1997

Duiker Mechanical BV (Machinefabriek Duiker)

HP BASIC, HP Basic for Windows with BPLUS extension — Advising on the replacement of a very old computer system with a new one, while preserving the functionality of the software. Modifications to the program in order to make it run with HP Basic for Windows. Replacement of the original character oriented user interface with a Windows GUI (BPLUS extension).

Ingenieursbureau Geodelta B.V

Microsoft Visual C++ 4.1 (and MFC), Windows NT/Windows95, Perl — Development of an object oriented method for run-time object linking, and design of modular (component based) software, after evaluation of existing methods. Functional specification and writing of a paper that the method proposed by Castle Amber. This method is now called "Phoxy Technology" and is still in use.

Implementation of the component based software with run time linking using dynamically loadable libraries (DLLs). Writing of documentation. Developed several software components that are the core of an advanced photogrammetric (3D measurement in 2D images) application called Phoxy.

Developed additional components for the Phoxy Project (GUI components). Extended several of the database components (additional queries)

A Perl script was created to automatically generate the documentation from comments in the source of each component, slightly based on JavaDoc.

- <http://www.geodelta.com/>
- <http://www.geodelta.com/phoxy/phoxytoolbox.htm>

Meijer Energie & Milieumanagement

Microsoft Excel (Office 95) — Developed a spreadsheet application for assignment of subsidy for environment related savings (STIMMI). Developed three spreadsheet solutions for calculations of isolation, relative air humidity, temperature.

- <http://www.meijer.nl/>

Nedstat

Perl, C, Apache web server, IRIX 5.3 — Converted the Perl version of the Nedstat Basic counter to C. Documentation of the C version.

- <http://www.nedstat.com/nl/>

BTR

SGI Indigo R3000, Perl, Apache web server, IRIX 5.3, Windows95 — Developed software for web banner display and logging of banner views and banner clicks. Developed a script to let website visitors dynamically add links to a database. Additional script that dynamically generates a web page based on the links in the database. Pop up Java applet. Developed a program to post messages on Usenet (NNTP). Developed a script that gives an overview of page view counts for several web counters.

Meijer Energie & Milieumanagement

Perl, C, Apache web server, IRIX 5.3 — Developed several CGI scripts for Energy-Online. Together these scripts visualize (bar graph, table) the actual energy usage of a building and the target energy usage. Owners of each building have an account. Given a small course in Perl programming and CGI.

- <http://www.meijer.nl/>
- <http://www.eol.nl/>

1998

BTR

Perl, Apache web server, IRIX 5.3 — Did some sever maintenance. Created a Perl script to extract information from the web server access log. Developed an improved web counter (multi-count).

Meijer Energie & Milieumanagement

Perl, Apache web server, C, IRIX 5.3, Microsoft Excel — Added several new graphs (line and bar) to the graph drawing program written in C. Added a total overview of buildings and a daily usage overview (both Perl). Developed and Excel spreadsheet solution that calculates the efficiency of several methods of environmental (energy) savings. Developed a spreadsheet solution to calculate heating degree-days and heating degree-hours.

- <http://www.meijer.nl/>
- <http://www.mm.nl/>

Nedstat

Java, Apache web server, IRIX 5.3, Windows — Developed a prototype for planning banners on websites. Wrote the documentation for the libraries and programs. Wrote the functional design of a banner planning system. Developed the banner server in Java.

- <http://www.nedstat.com/nl/>

Meijer Energie- & Milieumanagement

Perl, Apache, Java, C, IRIX 5.3, Red Hat Linux, Excel — Modified and extended the MilieuMonitor software. Added support for visualizing temperature. Developed a neural network program (in C) that analyzes previous usage patterns. Results can be visualized with Excel.

- <http://www.meijer.nl/>
- <http://www.mm.nl/>

BTR

Perl, Java, Excel, Windows 95, IRIX 5.3 — Developed an on-line shop with static database publication. The database is maintained with Excel. Developed a Java game applet (click a random button) for advertising purposes. Developed a search engine top 10 analyzing program to obtain information regarding search engines web page ranking.

Nedstat (Compass Interactive) / Diversity

Perl, Visual C, Windows 95, IRIX 5.3, Linux — Several user interface modifications to the AdWork program. Added new features such as search for empty space, export of the plan grid to HTML. Some small modifications to the banner server.

- <http://www.nedstat.com/nl/>

Meijer Energie- & Milieumanagement

Perl, C, Java, mySQL, Windows 95, IRIX 5.3, IRIX 6.5, Linux, Tomcat — Designed major parts of the Energy On Line 2 (EOL-2) database and wrote the accompanied documentation. Designed the EOL-2 database maintenance application. Designed a servlet for visualization of usage values. Implemented the import program. Documentation of the software (English) using L_AT_EX.

- <http://www.meijer.nl/>
- <http://www.mm.nl/>

Bumicom Telecom BV

Perl, Windows 95 — Developed a SQL database recovery script using Perl. The script extracts the data from an ASCII database dump and creates a text file with SQL data insertion statements.

- <http://www.bumicom.nl/>

Miscellany Enterprises

Perl, Apache web server, Linux (Red Hat 7.0) — Modifications to an existing CGI script that shows draws and scores of several sports.

IGC Europe

Perl, Apache, Linux (Red Hat 7.0) — Added extra functionality to an existing car database site.

- <http://www.igceurope.nl/>

Hirsche advies

Perl, Apache, JDK 2, Jakarta/Tomcat, Linux (Red Hat 7.0) — Created a bar chart servlet with various types of bar charts. Stacked bar charts, percentage bar charts, and comparison bar charts.

Ras informatisering bv

Java, Jakarta/Tomcat, Apache web server, XML-RPC — Created a parallel web server monitoring application that can be controlled by a servlet. Created a parallel search engine that gathers XML pages and reformats it to one valid XML page for further processing by a PHP application. The front-end of the search engine is a servlet. The search engine requests a list of available engines from the monitoring application.

- <http://rasterinfo.r-i.nl/site/>

Workwide

Perl, JavaScript — Created a custom template system to make news available on the Workwide site and related sites. A very flexible script was written that is now also used to create RSS feeds.

- <http://www.workwide.nl/>

Tambourine web site design

Perl — Created custom template system using Perl, both for the Tambourine site as well as for their customers. A dynamic solution was provided that is also search engine friendly.

- <http://www.tambourinewebdesign.com/web/>

¹ Due to a severe depression I was not able to work from mid 2002 until the start of 2004.

MoreResults

Perl, PAR, WxWindows, InnoSetup, GoldMine, Outlook — Conversion of an existing CRM utility written in Perl to OO Perl. Addition of a GUI using WxWindows (WxWidgets). Extended and enhanced existing communication with GoldMine (DDE) / Outlook (OLE). Application deployment using PAR (packaging) and InnoSetup (installation).

- <http://www.moreresults.nl/infowinner/catalog/>