Stéphane Thibaud

Curriculum Vitae

Generaal Eisenhowerplein 5-F075
2288AE Rijswijk
✆ *+31636254941*
✉ *snthibaud@gmail.com*

Education

2013–2016 **Master in Software Engineering (MSc, part-time)**, *Open University*.
Currently, I'm working on my master thesis 'Domain reasoner for math-exercises with compass and ruler' in part-time. I expect to finish my master at the beginning of 2016.

2013 **Bachelor of Computer Science (BSc)**, *Eindhoven University of Technology*, Eindhoven.

Minor in Japanese Language and Culture, *Université Paris-Diderot*, Paris.

Experience

Vocational

july 2014–
now **Software Engineer**, KE-works, Delft.
In my current job I'm working on the development of a web-based tool that helps engineers in the automation and optimization of engineering processes. The tool keeps track of all data that engineers generate during the development of a product. Not only the end-result is of importance, but every change in a product's parameters is. The goal of the application is to work towards an end-result that approaches an optimal end-result (in terms of cost, for example). The tool also integrates with external services. Responsibilities included the technical design/approach and the implementation of several requested features and the improvement of performance of existing features.

.
Detailed achievements:
- Made the back-end keep track of documents in a uniform way (versioning and dates on every document, signalling of CRUD operations etc.).
- Implemented/designed a layer responsible for quick kd-tree-operations (making it easier to do fast queries).
- Implemented/designed a tool that calculates cyclomatic complexity and unit-size metric on both Python and JavaScript code and generates a PDF report. This is used for identifying code that needs refactoring.
- Optimized performance on several methods by analyzing data flow and improving running time of algorithms (making them more scalable as well).
- Made a (very basic) Git-like version management system (change logging and comparison).
- Made a package for external service integration.
- Implemented part of the BPMN specification.
- Implemented a security layer using django-guardian

.
Tools/technologies used on the job:
- Python
- PyCharm (Python editor/debugger)
- Git
- SVN (before changing to Git)
- Jenkins (continuous integration)
- UML
- BPMN
- Formal specification
- ExtJS
- Chromium debugger (for JavaScript debugging)
- SnakeViz (for a graphical representation of performance profiling results)
- JIRA (issue & project tracking)
- Confluence (team collaboration software)
- Django
- PostgreSQL
- MongoDB

august 2013– july 2014   **Developer**, KE-works, Delft.
In my current job I'm working on the development of a web-based tool that helps engineers in the automation and optimization of engineering processes.

2012   **Software Engineering Project**, Eindhoven University of Technology and Océ/Canon.
A project in which I worked in a group to make a program that could visualize data (for Océ/Canon). This was a project that was part of my bachelor in computer science.

2011–2012   **Python Web-Developer**, MyDock, Eindhoven.
Developed a web-based store that manages a company's inventory. Specifically, I developed integrations with external web-systems that we called 'targets' (see `http://www.mydockapp.com/our-story/team`).

Detailed achievements:
- Learned Python and how to use it in a web-environment
- Learned several web-development techniques (XML, Ajax etc.)
- Built 'targets' that interact with external systems such as Zendesk
- Worked on an element for uploading photos (using JQuery)

Miscellaneous

2010   **Dutch-French translation**, Jegerings, Eindhoven.
Translated a technical manual of a vegetable-cutting-machine from Dutch to French.

2009   **Junior Consultant**, Unipartners, Eindhoven.
Worked on a web-system to manage the company's documents and did some tele-marketing of a new study in my university among international universities.

2007-2008   **Student assistant and php-programming**, Avans Hogeschool, Eindhoven.
Extended a php web-system for a library kind of system with new functionality and assisted students with their computer-related problems.

~2005–~2008	**Some assembler OS programming**.

During this period, I have been working on my own operating system in NASM assembler. I managed to boot from CD-ROM (by implementing the El Torito standard), set up some form of memory management, make a framework for loading modules, to enter 'Protected Mode' (which is a mode on x86 CPU's that modern operating systems run in) and to make a text-mode video driver that would format the text such that lines would end where there were spaces in sentences.

Carreer objectives

I'd like to work in a stimulating environment where I can apply my knowledge and skills and where I can learn new things along the way.

Computer skills

Python	**2 years of full-time experience**	
Haskell	**Some experience**	*Using it during my master's thesis*
MongoDB	**2 years of full-time experience**	*NoSQL database*
NASM Assembler	**Some experience**	*Used it for a hobby project*
KNIME	**Some experience**	*Used it for some hobby projects*
PHP	**Some experience**	*Used it in a part-time job*
C/C++	**Minimal experience**	*Made a basic 3D train animation with OpenGL (educational experience)*
Java	**Minimal experience**	*Educational experience only*
Pascal	**Minimal experience**	*Educational experience only*
ExtJS	**Minimal experience**	
Visual Basic	**Minimal experience**	*First programming language*
SPARQL	**Minimal experience**	*Educational experience only*

Natural Languages

Dutch	**Native language**	
French	**Second language**	
English	**Quite fluent**	*TOEIC score: 950.*
Japanese	**Basic**	*JLPT N4*

Interests

- Travel
- Computer science
- Quality cinema
- Learning Japanese

Appendix

Top 10 grades of the Bachelor degree

The dutch grading system uses a scale from 1 to 10, where 1 is the lowest grade and 10 is the highest grade.

Discrete Structures	10
Functional Programming	9
Design-Based Learning 1.2	9
Computer Graphics	8
Computer Systems	8
Software Testing	8
Computer Networks	8
Statistics	8
Security	8
International Negotiation	8