

HamzaHAIKEN

Junior Software Engineer

Contact

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Languages

French mother tongue
English fluent
German intermediate
Arabic father tongue
Japanese self-taught

Programming

Java 7 & 8, Scala,
Python, Haskell,
C, C++ 98 & 11,
CSS3, HTML5


About Me

Born in Switzerland,
on 19/11/1989.
Grew up programming,
playing music and
travelling around the world


Interests

Solving challenges
Self-learning new topics
Passion for elegant code

Education

2013 – 2015  **Bachelor of Science** in Computer Science and Engineering HEIG-VD, Yverdon-les-Bains
BSc Thesis : [heig-vd](#)
CRT – Cathode Ray Tracer
Java ray tracer with custom scene description scripting language
(grammar and parsing done with ANTLR4) and OpenGL live view
Course highlights :

- **Play** for Scala by Cay HORTSMANN, with *ScalaJS* and *Spark*
- Human-machine interface project on robot **NAO** for exhibition in Museum “*La maison d'ailleurs*”
- Multi-tier application project using **Java EE**, *RAML* and *Docker*
- **Agile** course on *AUP* & *XP* methodologies including group project
- Dynamic single-page web application project with REST API using **AngularJS**, *Node.js* and *MongoDB*.
- *Neural networks* and machine learning, *genetic algorithms*


2009 – 2013 *Bachelor Student* in Computer Science École Polytechnique Fédérale de Lausanne
Course highlights : 

- **Scala** course by creator Martin ODESKY
- Discrete structures course by Arjen LENSTRA

2008 – 2009 *Military Service* Wangen a. A. / Bremgarten
Natural disaster response commando (*Katastrophenhilfebereitschaftsverband*)

2005 – 2008  **Federal Matura** Gymnase du Bugnon, Lausanne
Physics and mathematics orientation
Matura Thesis :
iGo – Un projet Python
Graphical game made in Python for playing the game of Go, with local and network play. Became the most borrowed thesis from the school's library during the next year

2014 – 2015 *Various school tutoring jobs* Canton de Vaud

2010 – 2013 **École Polytechnique Fédérale de Lausanne** Lausanne
Teaching Assistant 
Assisting students in the logic systems course by Eduardo SANCHEZ

2012 **TIG Piping** Lausanne
Designer
Logo study & design

2010 **Random ICP** Morges
Web Designer
Re-designed company's static home page from scratch

2009 **Business & Decision** Geneva
Web Designer
Created static web page for CPM event