

Thomas Schweizer

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EDUCATION

<i>Master of Science in Computer Science, major in Software Engineering.</i> University of Montréal	01.2018 - Current
<i>Bachelor of Science in Computer Science, major in Software Engineering.</i> HEIG-VD	09.2011 - 09.2014
International summer university in computer science at San Jose State University. SJSU	07.2013 - 3 weeks
<i>Certificat fédéral de capacité en informatique et Maturité technique professionnelle.</i> ETML	08.2008 - 06.2011
(Apprenticeship in computer science coupled with the equivalent of a professional high school degree)	

EMPLOYEMENT

Software engineer. Digger Foundation. <i>Tavannes, Switzerland.</i>	10.2014 - Current
Main developer for the development and maintenance of several in-house, and core business software. Specifically, full stack software engineering on a cross-platform GPS based system and prototyping of a remote control system for excavators using augmented and virtual reality.	
Principal maintainer of the IT infrastructure, company websites and technical support for the foundation employees.	
- Significantly enhanced the robustness, maintainability, and ergonomics of the main, and largest, product by gradually evolving its core architecture.	
- Introduced agile methodology and enforced systematic testing for critical software components.	
- Improved the development processes by installing and configuring a new integrated workflow platform and setting practical development guidelines for the company.	
- Modernized the IT infrastructure by installing new hardware (server, network).	

SOFTWARE PROJECTS

Pause , Personal project : Break-time reminder in Scala and ScalaFx.	
Seshat , Personal project : Modern class diagram editor in Java and JavaFx.	
EVA , HEIG-VD : Evolution et vie artificielles (Artificial evolution and life)	
▷ Developed a genetic library and a 3D simulation environment in C# to observe the evolution of a population of virtual organisms, and executed controlled experiments to analyze the behaviors of different populations.	
PropSim , HEIG-VD, Project leader (Team of 5) : Configurable propagation simulator in Python	
MIDAS , HEIG-VD, Project leader (Team of 5) : Accounting software in Java.	

COMPUTER SKILLS

Languages:	Java, Python, R, HTML, CSS, SQL, C#, Scala, JavaScript, PHP, C++, Haskell, C, Assembly
Topics:	Agile, Android, Machine Learning, Data Science, Unix, Databases, Bio informatics, Unity

AWARDS AND ACHIEVEMENTS

UdeM	
<i>Bourse d'excellence DIRO</i> : Excellent academic and research results	11.2018
<i>Bourse d'excellence FESP</i> : Excellent academic and research results	10.2018
<i>Bourse C</i> : International tuition fee exemption	01.2018 - 12.2018
HEIG-VD (Grade A, Class rank 1)	
<i>Prix HEIG-VD</i> : Best overall results during all semesters and final project	12.2014
<i>Prix GiTi</i> : Excellent bachelor project " <i>Evolution et vie artificielles</i> "	12.2014
ETML (Grade A, Class rank 1)	
<i>Distinction</i> : Top 10 best final year project of computer science's apprenticeships in Switzerland in 2011	11.2011
<i>Prix de pratique</i> : Best overall performance for final year.	07.2011
Second best performance in the state of Vaud, Switzerland in 2011 for computer science apprenticeships	
<i>Prix de théorie</i> : Best average grade in theory for the final year	07.2011
<i>Diplôme ETML</i> : Passed the finals and very good results during the training	07.2011
<i>Prix d'attitude et progrès remarquables</i> : Remarkable progress, merit and behavior	11.2009