

# Thomas Schweizer

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## EDUCATION

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

## EMPLOYEMENT

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**Software engineer.** Digger Foundation. *Tavannes, Switzerland.* 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), improving collaboration and documentation.

## ACADEMIA

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<b>CSCAN/SPAC'19</b>	Poster presentation	06.2019
<b>ML4SE'19</b>	Conference attendance	05.2019
<b>ICSE'19</b>	Conference attendance	05.2019
<b>MiSE'19</b>	Poster presentation	05.2019
<b>MSR'19</b>	Conference attendance	05.2019
<b>SEMLA'19</b>	Conference attendance	05.2019
<b>CSER'19</b>	Poster presentation	05.2019
<b>ESEM'19</b>	Submitted a technical paper	04.2019
<b>UdeM</b>	Teaching assistant for the advanced Java course	04.2019 - 06.2019
<b>ICSE/SRC'19</b>	Submitted a technical paper	01.2019
<b>UdeM</b>	Teaching assistant for the software engineering course	09.2018 - 12.2018
<b>ICSE'19</b>	Submitted a technical paper	08.2018
<b>SEMLA'18</b>	Poster Presentation	06.2018

## PROJECTS

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**Pause**, Personal project : Break-time reminder in Scala and ScalaFx.  
**Seshat**, Personal project : Modern class diagram editor in Java and JavaFx.  
**Stargazers**, UdeM, Team project : Exoplanet classifier based on Kepler dataset.  
**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, Team project : Configurable propagation simulator in Python.

## COMPUTER SKILLS

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

## AWARDS AND ACHIEVEMENTS

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### UdeM

<i>Bourse d'excellence DIRO</i> : Excellent academic and research results	03.2019
<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> : Scholarship of excellence for international students	01.2018 - 12.2018
<b>HEIG-VD</b> (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
<b>ETML</b> (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