Thomas Schweizer

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EDUCATION

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

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

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

PROJECTS

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

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

UdeM

Bourse d'excellence DIRO: Excellent academic and research results — 03.2019

Bourse d'excellence DIRO: Excellent academic and research results — 11.2018

Bourse d'excellence FESP: Excellent academic and research results — 10.2018

Bourse C: Scholarship of excellence for international students — 01.2018 - 12.2018

HEIG-VD (Grade A, Class rank 1)

Prix HEIG-VD : Best overall results during all semesters and final project — 12.2014

Prix GiTi : Excellent bachelor project "*Evolution et vie artificielles*" — 12.2014

ETML (Grade A, Class rank 1)

Distinction : Top 10 best final year project of computer science's apprenticeships in Switzerland in 2011 — 11.2011

Prix de pratique : Best overall performance for final year. — 07.2011
Second best performance in the state of Vaud, Switzerland in 2011 for computer science apprenticeships

Prix de théorie : Best average grade in theory for the final year — 07.2011

Diplôme ETML : Passed the finals and very good results during the training — 07.2011

Prix d'attitude et progrès remarquables : Remarkable progress, merit and behavior — 11.2009