Thomas Schweizer

Montréal, Canada · +1(514) 229-3599 · thms.sch@gmail.com
https://thomsch.github.io · https://www.linkedin.com/in/tschweizer

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
Lead engineer for the development and maintenance of several in-house and core business software, and IT technician. Specifically, full-stack software engineer for a cross-platform GPS based system and prototyping of a remote control system for excavators using augmented and virtual reality.
- 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.

Teaching assistant for 'Advanced Java'. UdeM. *Montréal, Canada.*   04.2019 - 07.2019
Teaching assistant for 'Software Engineering'. UdeM. *Montréal, Canada.*   09.2018 - 12.2018

ACADEMIA

CASCON'19	Submitted a technical article	06.2019
CASCON'19	Submitted a systematic mapping article	06.2019
ESEM'19	Submitted a vision article	06.2019
CSCAN/SPAC'19	Poster presentation	06.2019
ML4SE'19	Conference attendance	05.2019
ICSE'19	Conference attendance	05.2019
MiSE'19	Poster presentation	05.2019
MSR'19	Conference attendance	05.2019
SEMLA'19	Conference attendance	05.2019
CSER'19	Poster presentation	05.2019
ESEM'19	Submitted a technical article	04.2019
ICSE/SRC'19	Submitted a technical article	01.2019
ICSE'19	Submitted a technical article	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, Coordinator : 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, Scrum master : Configurable propagation simulator in Python.

COMPUTER SKILLS

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

Awards and Achievements on the next page.

Awards and Achievements

UdeM (Grade A)

Bourse de fin de maîtrise: Excellent academic and research results	07.2019
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 apprenticeships in Switzerland	11.2011
Distinction : Second best performance in Switzerland for the state of Vaud in computer science apprenticeships	07.2011
Prix de pratique : Best overall performance for final year.	07.2011
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