

Thomas Schweizer

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EDUCATION

PhD in Computer Science <i>University of Washington, USA</i>	2020 - ...
Master of Science in Computer Science <i>Université de Montréal (UdeM), Canada</i>	2018 - 2020
Bachelor of Science in Computer Science, major in Software Engineering <i>Haute Ecole d'Ingénierie et de Gestion du Canton de Vaud (HEIG-VD), Switzerland</i>	2011 - 2014
International Summer university in Computer Science <i>San Jose State University (SJSU), United States</i>	2013
Certificat Fédéral de Capacité en Informatique and Maturité Technique Professionnelle (Apprenticeship in computer science coupled with the equivalent of a professional high school degree) <i>Ecole Technique - Ecole des Métiers de Lausanne (ETML), Switzerland</i>	2008 - 2011

EMPLOYMENT

Research Software Developer. MILA. <i>Canada.</i>	2020
- Developing software tools and methodologies to drive cutting-edge research in the domain of machine learning and its implementation in production.	
Software engineer. Digger Foundation. <i>Switzerland.</i>	2014 - ...
- 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.	
- Improved collaboration and documentation by installing new servers and network equipment.	
Teaching assistant for 'Advanced Java'. UdeM. <i>Canada.</i>	2019
Teaching assistant for 'Software Engineering'. UdeM. <i>Canada.</i>	2018

ACADEMIA

SCAM'2020	<i>Can Refactorings Indicate Design Tradeoffs?</i>	09.2020
CSCAN/SPAC'19	Poster presentation	06.2019
MISE@ICSE'19	Poster presentation	05.2019
CSER'19	Poster presentation	05.2019
SEMLA'18	Poster presentation	06.2018

TECHNICAL SKILLS

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

PROJECTS

Pause , Personal project : Break-time reminder built on Electron (HTML/CSS/Javascript/NodeJS).
Seshat , Personal project : Modern class diagram editor in Java and JavaFx.
Stargazers , UdeM, Team project, project leader : 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 understand 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.

Awards and achievements on the back.

AWARDS AND ACHIEVEMENTS

UdeM (GPA 4.0)

<i>Bourse de rédaction DIRO</i> : Departmental scholarship for thesis redaction	2019
<i>Bourse d'excellence FESP</i> : Graduate and post-doctoral studies faculty scholarship for academic excellence	2019
<i>Bourse de fin de maîtrise</i> : Graduate and post-doctoral studies faculty scholarship for thesis redaction	2019
<i>Bourse d'excellence DIRO</i> : Departmental scholarship for academic excellence	2019
<i>Bourse d'excellence DIRO</i> : Departmental scholarship for academic excellence	2018
<i>Bourse d'excellence FESP</i> : Graduate and post-doctoral studies faculty scholarship for academic excellence	2018
<i>Bourse C</i> : Scholarship of excellence for international students	2018

SJSU (GPA 3.96, Class rank 1)

HEIG-VD (Grade A, Class rank 1)

<i>Prix HEIG-VD</i> : Best overall results during all semesters and final project	2014
<i>Prix GiTi</i> : Excellent bachelor project " <i>Evolution et vie artificielles</i> "	2014

ETML (Grade A, Class rank 1)

<i>Distinction</i> : Top 10 best final year project of computer science apprenticeships in Switzerland	2011
<i>Distinction</i> : Second best performance in Switzerland for the state of Vaud in computer science apprenticeships	2011
<i>Prix de pratique</i> : Best overall performance for final year.	2011
<i>Prix de théorie</i> : Best average grade in theory for the final year	2011
<i>Diplôme ETML</i> : Passed the finals and very good results during the training	2011
<i>Prix d'attitude et progrès remarquables</i> : Remarkable progress, merit and behavior	2009

GPA (out of 4.0) is calculated from <https://applications.wes.org/igpa-calculator/>.