

Thomas Schweizer

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EDUCATION

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| PhD in Computer Science <i>University of Washington, United States</i> | 2020 - ... |
| Master of Science in Computer Science <i>Université de Montréal (UdeM), Canada</i> | 2018 - 2020 |
| International Summer university in Computer Science <i>San Jose State University (SJSU), United States</i> | 2013 |
| 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 |
| 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 |

EXPERIENCE

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| 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

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|----------------------|-----------------|--|---------|
| SCAM'2020 | Technical Paper | <i>Can Refactorings Indicate Design Tradeoffs?</i> | 09.2020 |
| CSCAN/SPAC'19 | Poster | <i>Finding Quality Tradeoffs in Revision Histories</i> | 06.2019 |
| MISE@ICSE'19 | Poster | <i>Finding Quality Tradeoffs in Revision Histories</i> | 05.2019 |
| CSER'19 | Poster | <i>Finding Quality Tradeoffs in Revision Histories</i> | 05.2019 |
| SEMLA'18 | Poster | <i>Applying Software Engineering Principles to a Machine Learning Algorithm: Lessons Learned</i> | 06.2018 |

TECHNICAL SKILLS

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| 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 |

SELECTED PROJECTS

Metric History, Thesis project: Source Code Analysis across Version History
Pause, Personal project : Break-time reminder built on Electron (HTML/CSS/Javascript/NodeJS).
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

UW

Allen School Computer Science & Engineering Research Fellowship. 2020

UdeM (GPA 4.0)

Bourse de rédaction DIRO: Departmental scholarship for thesis redaction 2019

Bourse d'excellence FESP: Graduate and post-doctoral studies faculty scholarship for academic excellence 2019

Bourse de fin de maîtrise: Graduate and post-doctoral studies faculty scholarship for thesis redaction 2019

Bourse d'excellence DIRO: Departmental scholarship for academic excellence 2019

Bourse d'excellence DIRO: Departmental scholarship for academic excellence 2018

Bourse d'excellence FESP: Graduate and post-doctoral studies faculty scholarship for academic excellence 2018

Bourse C: Scholarship of excellence for international students 2018

SJSU (GPA 3.96, Class rank 1)

HEIG-VD (Grade A, Class rank 1)

Prix HEIG-VD : Best overall results during all semesters and final project 2014

Prix GiTi : Excellent bachelor project "*Evolution et vie artificielles*" 2014

ETML (Grade A, Class rank 1)

Distinction : Top 10 best final year project of computer science apprenticeships in Switzerland 2011

Distinction : Second best performance in Switzerland for the state of Vaud in computer science apprenticeships 2011

Prix de pratique : Best overall performance for final year. 2011

Prix de théorie : Best average grade in theory for the final year 2011

Diplôme ETML : Passed the finals and very good results during the training 2011

Prix d'attitude et progrès remarquables : Remarkable progress, merit and behavior 2009

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