



Curriculum Vitae

Dipl.-Ing. Markus Weninger

📍 4040 Linz, Leopold-Figl-Straße 38/3/4 @markusw92@yahoo.de 📞 +43660/3115418

Birth Date: 04.04.1992, Vöcklabruck, Austria

Education: **Since 2017: Doctorate degree – Computer Science**

Johannes Kepler University – Linz

Thesis topic: “Detection & Analysis of Memory Anomalies in Trace-Based Memory Monitoring”

Research: Memory data analysis, data processing, aggregation, and visualization

Teaching: Introd. software development, Adv. software development, Compiler construction

2015 to 2017: Master - Computer Science / Software Engineering

Johannes Kepler University – Linz

Thesis: “User-defined Classification and Multi-grouping of Data in a Memory Monitoring Tool”

2012 to 2015: Bachelor - Informatik (Informatics)

Johannes Kepler University – Linz

Thesis: “An Experiment to Measure the Performance Trade-off between Traditional IO and Memory-mapped Files”

2006 to 2011: HTL Leonding für EDV und Organisation (Upper secondary technical and vocational college – Department for informatics)

Certificate with distinction

Thesis: Digital Teaching System

2002 to 2006: Bundesrealgymnasium Vöcklabruck

Professional Experience: **Since 09/2017: Institute Assistant / Researcher**

JKU, Institute for System Software & Christian Doppler Laboratory MEVSS - Linz

03/2017 – 07/2017: Tutor „Software Processes and Tools“

10/2016 – 02/2017: Tutor „Requirements Engineering“

JKU, Institute for Software Systems Engineering – Linz

10/2015 – 08/2017: Student Researcher

JKU, Christian Doppler Laboratory MEVSS – Linz

05/2013 – 09/2015: Software Engineer C#/.Net

bet-at-home.com Entertainment GmbH – Linz

07/2010 – 08/2010: Intern - Software Engineer

MIC Customs Solutions / MIC Datenverarbeitung GmbH – Linz

07/2008- 08/2008: Intern - IT

AIM Technical Solutions GmbH – Timelkam

Workshops: Young Computer Scientists, Tomorrow’s Experts in Computing, Traumberuf Technik (“Dreamjob Technics”), Frauen in die Technik (“Women into Technics”), JKU Workshops Sekundarstufe II (“Univ. Workshops for Schools”), KinderUni (“Kids University”), Lange Nacht der Forschung („Long Night of Research“), Stockholm Chaos and Reliability Engineering Day

Volunteer Work: **Student Union „Informatik“**

Johannes Kepler University Linz

Student Union „PhD Studies - Engineering & Natural Sciences“

Johannes Kepler University Linz

Rotaract

Social service and community service, Linz

Languages:	<p>Spoken + Written: German (mother tongue) English (fluent) Cambridge English - Business Vantage Certificate</p> <p>Programming languages: Professional: Java, Kotlin, C# Medium: SQL, PL/SQL, JavaScript, HTML, Prolog Basic: Scala, Python, R, C, C++, TypeScript, Haskell, LISP, CSS, T-SQL</p>
Awards:	<p>Best presentation of best paper candidates "User-defined Classification and Multi-level Grouping of Objects in Memory Monitoring", International Conference on Performance Engineering (ICPE), 2018</p> <p>Best paper candidate "User-defined Classification and Multi-level Grouping of Objects in Memory Monitoring", International Conference on Performance Engineering (ICPE), 2018</p> <p>2nd place at the Adolf-Adam Price for the best informatics master thesis "User-defined Classification and Multi-grouping of Data in a Memory Monitoring Tool" Johannes Kepler University, 2017</p> <p>Winner of the Coding 4 a Cause (C4C:EU) contest „ASVG- Accessible Scalable Vector Graphics” Association for the Advancement of Assistive Technology in Europe (AAATE) conference, 2015.</p> <p>Multiple “Top 10” results at Catalysts Coding Contests Linz / Vienna / Online, 2013 - 2019</p>
Publications:	<p>[12] <i>Weninger, M.; Makor, L.; Mössenböck, H.</i>, "Memory Leak Visualization using Evolving Software Cities", SSP 2019</p> <p>[11] <i>Weninger, M.; Gander, E.; Mössenböck, H.</i>, "Detection of Suspicious Time Windows in Memory Monitoring", MPLR 2019</p> <p>[10] <i>Weninger, M.; Makor, L.; Mössenböck, H.</i>, "AntTracks TrendViz: Configurable Heap Memory Visualization Over Time", ICPE 2019</p> <p>[9] <i>Weninger, M.; Gander, E.; Mössenböck, H.</i>, "Analyzing Data Structure Growth Over Time to Facilitate Memory Leak Detection", ICPE 2019</p> <p>[8] <i>Weninger, M.; Grünbacher, P.; Zhang, H.; Yue, T.; Ali, S.</i>, "Tool Support for Restricted Use Case Specification: Findings from a Controlled Experiment", APSEC 2018</p> <p>[7] <i>Weninger, M.; Gander, E.; Mössenböck, H.</i>, "Analyzing the Evolution of Data Structures in Trace-Based Memory Monitoring", SSP 2018</p> <p>[6] <i>Weninger, M.; Gander, E.; Mössenböck, H.</i>, "Utilizing Object Reference Graphs and Garbage Collection Roots to Detect Memory Leaks in Offline Memory Monitoring", ManLang 2018</p> <p>[5] <i>Weninger, M.; Mössenböck, H.</i>, "User-defined Classification and Multi-level Grouping of Objects in Memory Monitoring", ICPE 2018</p> <p>[4] <i>Weninger, M.; Lengauer, P.; Mössenböck, H.</i>, "User-centered Offline Analysis of Memory Monitoring Data", ICPE 2017</p> <p>[3] <i>Lengauer, P.; Bitto, V.; Mössenböck, H.; Weninger, M.</i>, "A Comprehensive Java Benchmark Study on Memory and Garbage Collection Behavior of DaCapo, DaCapo Scala, and SPECjvm2008", ICPE 2017</p> <p>[2] <i>Lengauer, P.; Bitto, V.; Fitzek, S.; Weninger, M.; Mössenböck, H.</i>, "Efficient Memory Traces with Full Pointer Information", PPPJ 2016</p> <p>[1] <i>Weninger, M.; Ortner, G.; Hahn, T.; Drümmer, O.; Miesenberger, K.</i>, „ASVG- Accessible Scalable Vector Graphics: intention trees to make charts more accessible and usable“, Journal of Assistive Technologies, Vol. 9 Issue 4 (2015)</p>