Marcel Stolin

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RECENT WORK EXPERIENCE

Software Engineer (Working Student and Master Thesis)	Stuttgart, Germany
ETAS GmbH, Advanced Engineering	Apr. 2023 - Dec. 2024
• Master thesis: Paving the way for Safe and Portable Software Components for using Rust and WebAssembly	r the Software-Defined venicle
• Researched zero-copy IPC for WebAssembly within the software-defined vehic	cle space
• Benchmark automation for automotive software on different embedded system	ns using perf and Python
Research Assistant	Stuttgart, Germany
Fraunhofer IPA	Sep. 2020 - Jun. 2021
• Bachelor thesis: Automated Deployment of Machine Learning Applications on GPU-Accelerated Apache Spark Cluster	n a Scalable Heterogeneous
• Researched high performance computing clusters for machine learning	
Data Engineer (Internship and Working Student)	Renningen, Germany
Robert Bosch GmbH, Bosch Center for Artificial Intelligence	May 2019 - Sep. 2020
• Built an automated CI/CD pipelines on GitLab, to publish Big Data applica environment	tions on a Microsoft Azure cloud
• Developed ETL pipelines using Apache Kafka and Scala	
Data Engineer (Internship)	Sunnyvale, CA, USA
Robert Bosch LLC, Bosch Center for Artificial Intelligence	Oct. 2018 - Mar. 2019
• Added sanity checks to the CI/CD pipelines of Big Data applications	
• Increased the build-time of a Big Data platform multi-module Scala project h	by 30%
Education	
Master of Science, Computer Science	Trento, Italy
University of Trento	2021 - 2025
• Current Grade: 28.67 out of 30.0	
• Relevant Coursework: Advanced Programming, Autonomous Software Agenta Introduction to Computer and Network Security, Security Testing, Web Arch Blockchain, Service Design and Engineering	
Bachelor of Science, Mobile Media	Stuttgart, Germany
Stuttgart Media University	2016 - 2021
• Final Grade: 2.0 out of 6.0 (best possible grade: 1.0)	
• Relevant Coursework: Advanced Programming in C++, Algorithms and Data Database Systems 1, Functional Programming, Software Development 1+2, V	
PROJECTS	
Computing within Limits 2022 (Conference Paper)	2022
Co-authored a paper where we built a concept of a low-energy Kubernetes commodity hardware.	cluster $(reCluster)$ of old
(computing within limits.org/2022/papers/limits22-final-Angeli.pdf)	
Wishlist Inviter (Course Project)	2023
Built a web application in Go and Python following the microservice archit wishlists using Beautiful Soup.	
(github.com/mstolin/wishlist-inviter)	

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Skills

Programming Languages: Rust, Go, Python, Java, C/C++
Tools: Ansible, Docker, Git (GitHub + GitLab), Linux, Packer, Podman, WebAssembly
Languages: German (native language), English (C1), Italian (A1b)
Certificates: Introduction to DevOps and Site Reliability Engineering (edX, 2021), Machine Learning Engineer
Nanodegree (Udacity, 2020)