



# Michael Borkowski

## Software Engineer

### Profile

**Nationality** Austrian  
**Residence** Braunschweig, Germany

### Languages

**German** Native  
**English** Proficient  
**Polish** Native  
**French** Intermediate

### Education

#### Doctorate, Computer Science

2015/11 – 2020/09, TU Wien  
*Predictive Approaches for Resource Provisioning in Distributed Systems*  
Associate Prof. Dr.-Ing. Stefan Schulte  
Grade: 1 — Excellent, with distinction; degree: Dr. techn.; Nominated for IEEE TCSC Outstanding PhD Dissertation Award 2020 as well as GI Award for Outstanding Dissertations 2020

#### Master Studies, Computer Science

2012/09 – 2015/10, TU Wien  
*Smart Prefetching for Mobile Users under Volatile Network Conditions*  
Associate Prof. Dr.-Ing. Stefan Schulte  
Grade: 1 — Excellent; degree: Dipl.-Ing., formally equivalent to MSc

#### Bachelor Studies, Computer Science

2009/09 – 2012/09, TU Wien  
*ACTA in a Nutshell: Das Handelsabkommen ACTA in seinen wichtigsten Zügen*  
Ao. Univ.-Prof. Dr. Markus Haslinger  
Grade: 1 — Excellent; degree: BSc

### Research

32 publications, including 22 reviewed and 9 first-author papers; one best paper award; 8 industrial, national and EU-funded projects; reviewer for 8 journals and conferences

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### Skillset

**Concepts** Software Architecture, Distributed Information Systems, Cloud Computing, DevOps and CI/CD, Software Test and Lifecycle Management, Machine Learning, Blockchain Technologies and Smart Contracts

**Core Technologies** Java, Spring Boot, Maven, Docker, Linux Management, bash Scripting, RESTful Services, AWS, JS/TS, Bootstrap, C#.NET, LaTeX, C/C++, Python

### Professional Activities

2019/05 – ongoing **Research Scientist, Software Engineer**  
*2 years*  
**German Aerospace Center (DLR), Institute of Flight Guidance, Unmanned Aircraft Systems, Braunschweig, Germany**  
Design, development, and operations of airspace management and guidance software for UAVs, on-board, on-ground, and cloud-based; project lead and co-lead; planning and execution of system verification tests; cloud server management; representation on international venues; student mentoring  
**Key Technologies:** Java, Spring Boot, Docker, REST, JS/TS, CI/CD, AWS, C/C++

2015/11 – 2019/04 **Research Assistant, Software Engineer**  
*3 years, 6 months*  
**TU Wien, Information Systems Institute, Vienna, Austria**  
Architecture and development of a cloud-based manufacturing platform; design and execution of testing and verification pipelines; data analysis and reporting; operative project lead; scientific writing, publication, and presentation on international venues; teaching assistance and mentoring  
**Key Technologies:** Java, Spring Boot, Thymeleaf, JS/jQuery, Docker, CI/CD, Jenkins

2015/05 – 2015/10 **Software Engineer**  
*6 months*  
**EclipseSource Services GmbH, Vienna, Austria**  
Development within the Eclipse Modeling Framework (EMF)  
**Key Technologies:** Java, Eclipse JDT, EMF, Gerrit, OSGi

2013/12 – 2015/04 **Systems Architect, Software Engineer, DevOps**  
*1 year, 5 months*  
**Flatout Technologies GmbH, Vienna, Austria**  
Technical project coordination, software architecture design, and development; interlocking of development and business aspects; continuous integration and delivery; testing and development lifecycle management  
**Key Technologies:** Java, REST, Redis, Z-Wave, OSGi, Linux, Jenkins, Ansible

2010/10 – 2014/02 **University Employee, Tutor**  
*3 years, 5 months part-time during studies*  
**TU Wien, Institute of Computer Aided Automation, Vienna, Austria**  
Teaching assistance in two bachelor courses, lab supervision

2010/08 – 2010/09 **Intern Software Developer**  
*2 months*  
**ASFİNAG Service GmbH, Vienna, Austria**  
Design and development of an integrated data processing solution  
**Key Technologies:** C#.NET, WPF, Microsoft SQL Server

2007/07, 2008/07 **Intern Software Developer**  
*1 month each*  
**Siemens AG Österreich, Vienna, Austria**  
Development, testing, and rollout of software projects  
**Key Technologies:** C#.NET, WPF, WCF, Java, Velocity, JSP

**Additional Training** Project Management Compact (DLR/Fischer and Friends GmbH, 2020)  
Project Management for Scientists (PMA/IPMA, Peter Birnstingl, 2018)  
Certified Tester Foundation Level (ISTQB, iSQI GmbH, 2014)