

# Mikhail Smolin

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## Professional Experience

- 04/2020 - **Lead Software Architect, full-time, IT Communication & Legal**  
Present Mercedes-Benz Group AG, Stuttgart, Germany
- Technical leadership and execution of full lifecycle digitization and automation IT projects.
  - Vendor management to ensure adherence to budget, schedule, and overarching IT strategy.
  - Responsible for understanding business requirements and providing solution architectures.
  - Benchmarking and identification of tech innovations for internal and external stakeholders.
  - Further development of the Integrity & Legal IT landscape in the Mercedes-Benz Group.
  - Support security and compliance processes along with legal requirements at headquarters.
- 07/2019 - **Senior IT Architect, full-time, Powertrain Production & Data Analytics**  
03/2020 Daimler AG, Stuttgart, Germany
- Lead digital transformation efforts throughout the larger Daimler AG powertrain landscape.
  - Analyzed processes and requirements with international cross-departmental professionals.
  - Collaborated with IT teams in production plants to help and define the user experience.
  - Approved implementations, supported and coordinated developers and external partners.
  - Support of IT in international locations, especially within the scope of piloting new APIs.
  - Participated in various work packages of complex cross-plant strategic Daimler IT projects.
- 02/2017 - **Software Engineer, full-time, UI & Web Solutions**  
06/2019 EXXETA AG, Stuttgart, Germany
- Full stack web and mobile development for major automotive OEMs and Tier 1 suppliers.
  - Lead an international distributed workforce according to Scrum in an agile project setup.
  - Interpersonal communication in cross-cultural project teams spanning different time zones.
  - Planned, directed and coordinated all aspects of project activities within the work team.
  - Managed personnel and budget issues, including tracking and reporting to stakeholders.
  - Collaborated with external service providers to develop long-term strategic partnerships.

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## Education

- 09/2023 - **Doctor of Philosophy, Computer Science**  
Present Kyrgyz State Technical University, Bishkek, Kyrgyzstan
- Research in the field of machine learning, cybersecurity, and intrusion detection systems.
  - Proposing a novel ensemble deep neural network learning model for intrusion detection.
  - Implementation and empirical analysis of models with respect to real network traffic data.
  - Publication of findings and insights in internationally leading conferences and journals.
  - Mentoring of graduate students and assistance in course preparation and implementation.
  - Contributing to the academic environment by participating in seminars and conferences.

- 03/2014 - **Master of Science, *Computer Science and Media*, Ø1.3**  
 01/2017 Stuttgart Media University, Stuttgart, Germany
- Thesis (Ø1.0): »Anomaly-based intrusion detection for automotive networks«
  - I proposed the applicability of detecting cyberattacks on the vehicular CAN bus standard.
  - Using network recordings of a modern sedan, a neural network was trained and evaluated.
  - Courses: Machine learning, information privacy, secure systems, agile project management.
- 09/2015 - **Master of Science, *Advanced Computer Systems Development*, Erasmus Grant**  
 02/2016 University of the West of Scotland, Glasgow, Scotland
- I attended courses in data mining, cybersecurity, signal processing, and English proficiency.
  - Implementation of an Android car diagnostic tool from in-vehicle sensor data using Java.
  - Project: Mobile car diagnostics and performance application from OBD-II sensor data in the vehicle.
- 10/2010 - **Bachelor of Science, *Business Informatics*, Ø2.3**  
 02/2014 Ansbach University of Applied Sciences, Ansbach, Germany
- Thesis (Ø1.0): »Version verification of HIL test sequences in car ECU manufacturing«
  - In cooperation with Robert Bosch GmbH (Bosch Automotive Electronics), I developed a group-wide Java desktop application in order to provide mechanical and software engineers a tool for analyzing and verifying automotive electronic stability program test sequences.
  - Courses: Business economics and management, big data, software engineering, IT security.

## Publications

- [1] M. Smolin, "GenCoder: A Generative AI-based Adaptive Intra-Vehicle Intrusion Detection System," *IEEE*, vol. 12, pp. 150651–150663, 2024. e-ISSN: 2169-3536, DOI: <https://doi.org/10.1109/ACCESS.2024.3476177>.
- [2] M. Smolin, "GenCoder++: A Protocol-Aware and Adversarially Robust Adaptive Intrusion Detection Framework for Hybrid CAN-Ethernet Vehicular Networks," *IEEE*, vol. 13, pp. 138381–138399, 2025. e-ISSN: 2169-3536, DOI: <https://doi.org/10.1109/ACCESS.2025.3595879>.

## Languages

German	CEFR C2	<i>Native Speaker</i>
English	CEFR C1	<i>Advanced</i>
Russian	CEFR B1	<i>Intermediate</i>

## Computer skills

Programming	Matlab, Python	Web	HTML5, JavaScript, XML
Database	MySQL, PostgreSQL	IDE	PyCharm, VS Code
Environment	MS 365, DevOps, Jira, L <sup>A</sup> T <sub>E</sub> X	OS	Linux, macOS, Windows

## Extra

International driving permit

*M. Smolin*

Stuttgart, August 27, 2025, Mikhail Smolin