

# Mikhail Smolin

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## Summary

Software professional and computer science (MS) graduate pushing 10+ years of international IT project experience. Having a strong background in the automotive industry as well as leading distributed engineering teams, I am highly committed to end-to-end IT project development; from creating requirements and interfaces to the coordination of full-lifecycle software development and validation tasks. I have an analytical, result-driven mindset, and I am very passionate about information security, data privacy, machine learning, full-stack web development, and e-discovery. Not only I am a dedicated team player who is committed to achieving outstanding work results, but also I am fascinated by research, teaching and innovation where I have a keen interest in expanding my knowledge as well as experiencing new professional and personal challenges in a global context.

## Experience

### 04/2020 - **Tech Lead, Data Protection & Corporate Security**

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 scope on project level.
- Responsible for understanding client's requirements and delivering solution architectures.
- Benchmarking and identification of tech innovations for internal and external stakeholders.
- Further development of the group-wide eDiscovery, data protection and legal IT landscape.
- Endorse investigation and compliance processes along legal requirements at headquarters.

### 07/2019 - **Senior IT Architect**

03/2020 Daimler AG, Stuttgart, Germany

- Supported driving digital transformation efforts across the broader powertrain landscape.
- Analyzed processes and requirements with international cross-departmental professionals.
- Collaborated with teams across production plants, to help and define the user experience.
- Approved implementations, supported and coordinated developers and external partners.
- Support of IT at 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 and Consultant**

06/2019 EXXETA AG, Stuttgart, Germany

- Lead an international, distributed workforce according to Scrum in an agile project setup.
- Full-stack Web and mobile development for major automotive OEMs and Tier 1 suppliers.
- Interpersonal communication in cross-cultural project teams across different time zones.
- Planned, directed, and coordinated all aspects of project activities within the work team.
- Managed budget and personnel matters including tracking and reporting to stakeholders.
- Collaborated with external service providers to develop long-term strategic partnerships.

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## Education

09/2023 - **Computer Science, PhD**

Present Kyrgyz State Technical University, Bishkek, Kyrgyzstan

Hamburg University of Applied Sciences, Hamburg, Germany

- Research in the field of machine learning, cybersecurity, and intrusion detection systems.
- Introducing a novel generative AI-based adaptive intra-vehicular network intrusion detection system leveraging a combination of deep neural networks and variational autoencoders.
- Implementation and empirical analysis of models with respect to changing attack patterns.
- Publication of findings and insights in internationally leading conferences and journals.

03/2014 - **Computer Science and Media, MS, 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 - **Advanced Computer Systems Development, MS, Erasmus Grant**

02/2016 University of the West of Scotland, Glasgow, Scotland

- I attended courses in data mining, cybersecurity, signal processing, and proficiency English.
- Implementation of an Android car diagnostics tool from in-vehicle sensor data using Java.
- Project: Mobile car diagnostics and performance app from in-vehicle OBD-II sensor data.

10/2010 - **Business Informatics, BS, 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.

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## Languages

German	CEFR C2	<i>Native Speaker</i>
English	CEFR C1	<i>Advanced</i>
Russian	CEFR B1	<i>Intermediate</i>
Mandarin	CEFR A1.1	<i>Beginner</i>

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## 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

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## Extra

International driving permit



Stuttgart, April 24, 2024, Mikhail Smolin