

SEBASTIAN SCHLEEMILCH

Software Engineer



Munich



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04.09.1989

PROFILE

Software Engineer specializing in platform engineering, developer infrastructure, and distributed systems. More than 12 years of experience building CI/CD systems, cloud-native platforms, and embedded software, with additional experience in backend development and applied AI. Skilled at turning ambiguous engineering problems into maintainable systems, from technical exploration and architecture through implementation. Effective collaborator with research, product, and platform teams, with experience mentoring colleagues and contributing to open source.

EXPERIENCE

Apr 2024 – Present	Research Software Engineer	BMW AG
	Conducting predevelopment research for an offline-first, distributed, edge-based, message-oriented data platform. Designing data models, knowledge graphs, and symbolic-reasoning components. Building MCP servers and AzA agents on top of the data platform. Developing vector and graph RAG systems, as well as keyword and semantic routing and tool-filtering strategies. Contributing to and maintaining open-source projects (see GitHub).	
	Go / Protobuf / gRPC / WebSockets / NATS.io / Python / Rust / Android / Kotlin / Kubernetes / Vector DBs / AzA / MCP	
Jan 2022 – Apr 2024 2 years	CI & Build Engineer	BMW AG
	Designed and maintained large-scale Continuous Integration pipelines for an embedded product platform. Developed, maintained, and operated an organization-wide GitHub linting application. Built containerized development environments.	
	Zuul / Kubernetes / Bazel / Python / Redis	
Jan 2019 – Dec 2021 3 years	CI Expert	Bosch GmbH
	Built auto-scaling, reproducible worker nodes and infrastructure as code. Developed change-set-aware pipelines and improved software build workflows.	
	Azure / Conan / Terraform	
Jun 2016 – Dec 2018 2.5 years	Software Integration Engineer	Bosch GmbH
	Established a Continuous Integration environment from scratch for more than 100 developers. Designed a multi-ECU repository architecture, configured and maintained the compiler tool chain, and introduced measurable code metrics, such as static code analysis.	
	C++ / Jenkins / Python / CMake / Groovy	
Jan 2014 – Dec 2014 12 months, part-time	Working Student	BMW M GmbH
	Analyzed, filtered, and visualized onboard diagnosis data.	
	VBA / Matlab	

Mar 2013 – Sep 2013 6 months	Bachelor Thesis Evaluated and selected dynamically inductive coils for vehicle charging. Controlled power electronic circuits and relays with microcontrollers, and simulated circuit behavior. Grade: 1.7 C / LTSpice	Fraunhofer IIS / FAU
Jun 2012 – Dec 2012 6 months, part-time	Working Student Programmed microcontrollers for wireless 868 MHz applications. C	Fraunhofer IIS
Jan 2012 – Mar 2012 3 months, part-time	Working Student Simulated dynamic loads on electric motors. C++	Siemens AG

EDUCATION

2014 – 2016 2 years	Master's Degree Automotive Software Engineering Final grade: 1.8 Master thesis: Exploration and Analysis of Copy Protection Mechanisms for Android Applications, Including the Implementation of a Demonstration Application. Grade: 1.0	Technical University of Munich (TUM)
2010 – 2013 3 years	Bachelor's Degree Mechatronics Final grade: 2.4	Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

LANGUAGES

German - native / **English** - proficient

HOBBIES

Tennis / Fitness / Guitar / Computers (Linux, Neovim, Hyprland, home automation, ...)