

Marcel Hudy



About

High-impact Engineering Leader with over 5 years of experience building scalable software solutions. I specialize in bridging the gap between product vision and technical execution. Recently, I spearheaded the transformation to an AI-native development process and drove a departmental quality initiative that increased code coverage from 30% to 90%. I am dedicated to fostering high-performance cultures where engineers grow both personally and professionally while delivering robust, innovative products.

Marcel Hudy

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Education

B.Sc Computer Science

Hochschule Aalen

03/2016 - 08/2019

Computer Science

University Ulm

10/2014 - 02/2016

University-Entrance Diploma

Technisches Gymnasium Heidenheim

Specialization: Computer Science

09/2010 - 06/2014

Language

- German
- English

Work experience

Team Lead Engineering

Collaboration Factory GmbH | 01/2026 - today

- Leading the strategic shift toward an AI-native development process, integrating Claude Code (Spec-Driven Development) into the SDLC to accelerate velocity and reduce manual toil in brownfield codebase.
- Empowering a cross-functional engineering team via structured mentorship and feedback cycles, focusing on identifying core competencies and executing individualized professional development plans.
- Collaborating with the Head of Engineering to align team goals with the corporate roadmap, ensuring transparent communication of goals to all stakeholders.

Full Stack Engineer

Collaboration Factory GmbH | 05/2022 - 01/2026

- Led the end-to-end development of a scalable, modular web application using Angular and Java, implementing AG-Grid for real-time resource utilization tracking.
- Spearheaded a transformation by leading a department-wide initiative that increased code coverage from 30% to 90% and established AI-native development workflows.
- Engineered the application to handle complex resource types and support dynamic data visualization, improving overall efficiency in resource tracking and management.
- Partnered closely with the Product Owner to translate high-level business goals into precise technical specifications, bridging the gap between vision and execution.

Software Developer / Software Consultant

Bachner Elektro GmbH & Co. KG | 01/2020 - 04/2022

- Developed a web application using Angular/TypeScript for the frontend and C# for the backend, focusing on validating COVID certificates.
- Created a secure software product for storing personal or business items, featuring options for time-based storage or transfer to others. Utilized Angular, TypeScript, MQTT, and C#.
- Designed a PWA to display real-time workspace occupancy in buildings, incorporating intelligent workstation booking features. Utilized Angular for the frontend and Node.js for the backend.

IT-Specialist

BMW AG on behalf of Bachner Elektro GmbH & Co. KG | 09/2019 - 12/2019

- Implemented and integrated the findings of a bachelor thesis into operational systems.
- Managed a subproject focused on developing a new concept for a card identity system and automated physical access for employees.
- Supported the product owner of an international access system throughout the planning, implementation, and testing phases.
- Developed web services for smart building solutions in C#, including backup functionality for DALI controllers and automated lighting control.

Bachelor student

BMW AG | 03/2019 - 09/2019

Thesis topic: Development of a task-oriented dialogue system for the international access system of the BMW AG.

- Developed a task-oriented dialogue system using Python and the machine learning framework Rasa for natural language processing.
- Implemented an interface with the international access management system, utilizing a SOAP client to execute application-specific functions.
- Implemented scripts in C# that users interact with via the language model to perform application-specific tasks, such as blocking employee access cards.
- Created an intelligent human-machine interface to streamline communication between the access management system and users.

Internship

BMW AG | 02/2018 - 08/2018

- Assisted in the planning, implementation, and testing phases of a new web application for the international access management system.
- Created training materials and conducted training sessions for security personnel.
- Developed a service to automatically display real-time changes in global security situations.
- Utilized agile project management methodologies, specifically SCRUM.

Technical Skills

- **AI & Modern Dev-Ops:** Claude Code, AI-assisted testing, CI/CD, SonarQube
- **Programming Languages:** TypeScript, Javascript, Java, HTML, CSS, C#, SQL, Python
- **Frameworks and Libraries:** Angular, Cypress, Bryntum, Spring, AG-Grid, React, Rasa, Node.js, Tailwind, PrimeNg
- **Tools and Technologies:** Git, Nx, MQTT, SOAP, Jenkins, Docker, Gradle, Jira, Vercel
- **Database Systems:** MongoDB, MySQL, PostgreSQL, Oracle

