

Gerd Bernhardt

Agentic Engineer · iOS & macOS · Scrum & SAFe

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PROFILE

I have been building apps for Apple platforms since 2007 – for products like RTL+, Eurowings, Lufthansa and HRS, most recently for Germany's electronic patient record at IBM. Today I build AI software factories: agent pipelines that produce software for iOS, Android, web and backend. I own architecture, quality and delivery – the agents write most of the code.

FOCUS AREAS

Agentic engineering

- AI software factories & agent workflows
- Spec-driven development
- Quality gates & automated reviews
- iOS, Android, web, Supabase, DevOps

iOS & macOS

- Swift, SwiftUI, Combine, async/await
- UIKit, AVFoundation, AVKit, StoreKit, HealthKit, Core Bluetooth
- Mac Catalyst, Swift Charts
- Confident in large, established codebases

Scrum & SAFe

- Working in scaled agile setups
- Coaching, tech talks, facilitation
- Analytical approach with OKRs
- Agile transformation of teams

CI/CD & quality

- GitLab CI, Jenkins, Xcode Cloud
- Fastlane, TestFlight
- Unit, UI and snapshot tests, TDD
- SonarQube, metrics

KEY FACTS

Available from
1 January 2027

Location
Cologne area, on-site or remote

Languages
German, English

CERTIFICATIONS

SAFe 5 Advanced Scrum Master (2022)

Scrum Alliance Certified Agile Leadership (CAL 1) (2018)

Scrum Alliance Certified ScrumMaster (2015)

EDUCATION

Master of Science, Computer Science

Diplom-Informatiker (FH) – Computer Science degree

PROJECTS

since 10/2026

AI software factory · mesics GmbH

Building and operating agent pipelines that turn specifications into working software – mobile, web and backend, including tests, CI/CD and operations.

- Architecture and specification as the steering instrument for AI agents
- Producing apps for iOS, Android and web plus Supabase backends
- Quality gates: automated tests, reviews, static analysis
- DevOps: CI/CD pipelines, container deployments, store releases

Technologies: AI Agents, Spec-driven Development, Swift / SwiftUI, Android, Web, Supabase, CI/CD, Docker

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11/2023 – 10/2026

ePA – electronic patient record · IBM Germany

Contributing to the electronic patient record (ePA), one of the largest digitalisation projects in the German healthcare system. Project end: 15 Oct 2026.

- iOS development for the ePA on the IBM Health Platform
- Security by design: secure development lifecycle, OWASP Top 10, cryptography
- Working against gematik specifications in a highly regulated environment (privacy, security)
- Collaboration in a scaled agile setup

Technologies: Swift, SwiftUI, gematik, OWASP, SAFe

04/2023 – 10/2023

Lactate Express · mesics GmbH

Mac Catalyst app for performance diagnostics in endurance sports – from product to brand.

- App development with SwiftUI, Combine and Swift Charts
- Connecting measurement devices via Core Bluetooth, HealthKit integration
- Product and brand development
- Agile setup and organisation of agile artefacts

Technologies: SwiftUI, Combine, Swift Charts, Core Bluetooth, HealthKit, Mac Catalyst

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04/2020 – 03/2023

TVNOW / RTL+ · RTL Germany

iOS development for one of Germany's largest streaming platforms, in several feature teams within a SAFe setup.

- iOS development in several feature teams
- Increasing test coverage (UI and unit tests)
- Team ambassador in a SAFe environment
- Operating CI/CD with GitLab and TestFlight
- Workshops on domain-driven design, nonviolent communication and feedback

Technologies: Swift, SwiftUI, GraphQL, Fastlane, GitLab CI, Proxyman, Miro

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09/2017 – 03/2020

Eurowings app · Eurowings

Stabilising and evolving the Eurowings app – and the agile transformation of the team.

- Stabilising and evolving the app
- Establishing agile ways of working and development standards
- Increasing test coverage (UI and unit tests)
- Operating CI/CD with Jenkins, Firebase and TestFlight

Technologies: Objective-C, Swift, Fastlane, Jenkins, Firebase, CocoaPods

04/2017 – 09/2017

Eventim universal app · CTS Eventim Solutions GmbH

Evolving the ticketing provider's universal app.

- Feature development of the universal app
- Introducing snapshot tests

Technologies: Swift, Fastlane, CocoaPods

07/2016 – 02/2017

White-label fashion app · Arvato Mobile Solutions

Greenfield white-label project – later Scrum Master for the iOS and Android team.

- Designing the white-label approach
- Setting up CI/CD
- Scrum Master for iOS & Android

Technologies: Swift 3, Objective-C, Fastlane, Hopper, Charles

01/2015 – 06/2016

Lufthansa app & AUDI Valet Parking · Sapient Nitro

Product development of the Lufthansa universal app in an international team, plus a prototype for AUDI Valet Parking.

- Product development of the Lufthansa app
- Greenfield prototype for AUDI Valet Parking

Technologies: Objective-C, Fastlane, SonarQube, CocoaPods

09/2014 – 12/2014

Raumfeld universal app · Lautsprecher Teufel GmbH, Berlin

Music streaming app for Raumfeld's WiFi speakers – with a strong focus on test-driven development.

- Feature development of the Raumfeld app
- WiFi onboarding for the speakers
- Driving TDD in the team

Technologies: Objective-C, XCTest, OCMock, TeamCity

02/2012 – 04/2014

HRS app · HRS – Hotel Reservation Service

Two years of hotel search on the iPhone: monthly releases, 14 languages and a complete rewrite as version 5 – test-driven in a CI environment.

- Feature development of HRS app versions 3 and 4
- Rewrite as HRS app version 5
- Geofencing, offline robustness, retry patterns

Technologies: Objective-C, TDD, OCMock, Jenkins, HockeyApp, Git Flow

11/2011 – 06/2012

Jeannie – voice assistant · Pannous GmbH

Speech recognition and voice control on the iPhone before Siri was everywhere: dictation, search, contacts.

Technologies: Nuance Dragon SDK, Objective-C

10/2011 – 11/2011

3D Augmented Maintenance Manager · Mieschke Hofmann und Partner (MHP)

iPad showcase for the SAP Automotive Symposium 2011 – later awarded "BEST OF 2012".

Technologies: OpenGL, Core Graphics, SAP

01/2009 – 12/2011

Client work · incl. the party DIE LINKE

iOS apps and software projects for various clients.

TRAINING

09/2026 **Application Security – The Complete Guide** · Udemy, Derek Fisher · 12.5 hours

04/2026 **IBM Health Platform – Data Security & Privacy** · Data security and privacy education · 2023, renewed 2026

02/2026 **IBM Core Training 2026** · IBM

11/2025 **Workshop: performance diagnostics** · Fokus:Diagnostik, Mirco Smerecnik · spiroergometry, lactate, VT1/VT2 determination in health and endurance sports

12/2024 **IBM Secure Development Curriculum (iOS Developer)** · Secure development lifecycle, security principles, cryptography, XSS, injections, CSRF, penetration testing · 2023, renewed 2024

09/2022 **Workshop: domain-driven design** · RTL+ · team structure along business domains, product ownership, fewer dependencies

08/2022 **Workshop: nonviolent communication** · RTL+ · after Marshall B. Rosenberg

07/2021 **Workshop: feedback** · RTL+ · structured feedback: observation, impact, request