PROJECT PROFILE

Phillipp Bertram

Freelance software developer · Software & AI



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Osnabrück · remote-first

14+ years	2× CTO & Co-Founder	Lead Software Architect	Aviation to smart homes
SOFTWARE DEVELOPMENT	KICKON · AEROSYS	DLR · HAWKEYE	INDUSTRY · FINTECH

PROFILE

I build mobile apps, web applications, backends and AI agents. I take care of architecture and development, improve existing software and help teams make technical decisions. As a developer, team lead and co-founder, I have worked on client projects and my own products.

Today, as Lead Software Architect in the DLR team, I am responsible for the architecture and development of Hawkeye. Alongside that, I support clients and build my own products. I am particularly proud of my long-term work on Hawkeye.

I co-founded two companies, KickOn and AeroSys. As CTO, I was responsible for architecture, development and building the team. I know the decisions that come with limited time and budgets.

WORKING TOGETHER

- Remote-first, on site by arrangement
- Time-based billing at a daily or hourly rate
- Full-time or part-time, for example on fixed days each week
- Directly or through recruiters and agencies
- Testing, test automation, DevOps, design and UX as part of development, not as the main responsibility
- No WordPress websites

FOCUS AREAS

AI agents & automated workflows

I build AI agents and automated workflows that work with your data and existing systems. For research, document analysis or recurring tasks in your team, for example.

Web applications & products

I build web applications, backends and SaaS products from scratch or continue developing existing applications.

Mobile apps

I build apps for iOS and Android, including apps connected to sensors, Bluetooth devices and RFID readers. Poor reception is part of field work. The app should be able to handle it.

Technical responsibility in your team

I take on technical responsibility or project management in your team and contribute code when needed. Together, we work through architecture questions, review code and plan the implementation.

SELECTED PROJECTS

Pricewerk: Analysis tools and AI agents for traders

Founder & Product Engineer · Pricewerk.com · 2026 – present

With Pricewerk, I build analysis tools and indicators for TradingView and MetaTrader. AI agents help with internal research, summarise news and analyse market information.

Technologies: AI agents, TradingView, MetaTrader, Python, TypeScript, LLMs

Hawkeye: Assessing alternate airports in real time

Lead Software Architect · DLR · 2025 – present

In DLR's Hawkeye team, I am responsible for architecture and technical implementation. The system brings together weather, NOTAMs and infrastructure data and assesses numerous factors per airport, helping pilots find suitable alternate airports in real time.

Technologies: Swift, Node.js, TypeScript, PostgreSQL, Redis, Docker, Better Auth, Electron, GitLab, iPad

Bilfinger: Internal apps for production

Mobile App Developer · Bilfinger · 2025 – 2026

As part of the development team, I supported Bilfinger with mobile apps for time tracking, material management and production workflows. Among other things, I developed an Android plugin to connect RFID card readers via USB.

Technologies: Flutter, Dart, Android, iOS, RFID, USB, Offline Storage

Financial analysis platform

Fullstack Software Engineer · 2023 – 2025

I independently developed a financial analysis platform for a client, from the architecture to the web interface. Hundreds of assets used to be checked manually for harmonic price patterns every day. The platform now performs this analysis automatically and in real time. It started as an internal tool. I then prepared it for external users, including payment functionality.

Technologies: AWS Lambda, DynamoDB, Go, TypeScript, React, Next.js, PostgreSQL, Auth0, Stripe

JUNG HOME: Smart home apps for iOS and Android

Mobile App Developer · Albrecht Jung · 2023 – 2025

As part of the JUNG HOME team, I worked on the native iOS and Android apps used to control smart home devices over Bluetooth Mesh. I developed features, supported releases and refactored existing code to make it easier to maintain.

Technologies: Swift, Kotlin, iOS, Android, Bluetooth Mesh, Firebase, REST API

addSensors: Try sensors directly in an app

Mobile App Software Engineer · addSensors · 2025

I built a Flutter app for addSensors that lets customers try the company's film sensors. The app connects to the sensors via Bluetooth Low Energy and displays readings and device status live. I delivered the app as the sole developer.

Technologies: Flutter, Dart, iOS, Bluetooth LE

Goose: AI-assisted co-pilot for aviation

Co-Founder & CTO · AeroSys AG · 2021 – 2023

As CTO and co-founder of AeroSys AG, I helped build the development team and led the technical development of Goose, an AI-assisted digital co-pilot. Goose was intended to support pilots' decisions and reduce cockpit workload. I also served on the supervisory board.

Technologies: AWS Lambda, Aurora PostgreSQL, DynamoDB, AWS IoT, Amazon SageMaker, Auth0, Python

KickOn: A platform for hospitality

Co-Founder & CTO · KickOn · 2018 – 2021

KickOn was my first step into self-employment with my own product. As CTO and co-founder, I was responsible for architecture and development. We planned a hospitality platform connecting websites, ordering, payments and inventory management. The product was not completed because of the COVID-19 pandemic.

Technologies: Node.js, React, AWS Lambda, DynamoDB, MongoDB, Auth0

PROFESSIONAL EXPERIENCE

2026 – present
Founder & Product Engineer · Pricewerk
With Pricewerk, I build my own analysis tools and AI agents for research and market information. I take care of the product idea, architecture and development.

2025 – present
Lead Software Architect · DLR
I am responsible for the architecture and development of Hawkeye, an EFB assistance system for selecting alternate airports in real time. This includes code quality, maintainability and making the decisions of this safety-critical system traceable.

2023 – present
Freelance Software Developer · Self-employed
I build applications for businesses, work within existing product teams and take on architecture, development or technical project management.

2021 – 2023
CTO & Co-Founder · AeroSys AG
As CTO and co-founder, I was responsible for developing an AI-assisted digital co-pilot. I helped build the team and made the architecture and technology decisions.

2019 – 2021
Software Engineer · slashwhy
I developed mobile apps for clients across different industries.

2018 – 2021
CTO & Co-Founder · KickOn
As CTO and co-founder, I was responsible for the architecture and development of a SaaS platform for hospitality. The product was not completed because of the COVID-19 pandemic.

2015 – 2019
Head of Mobile App Development · LMIS AG
As Head of Mobile App Development, I led a team, took responsibility for mobile projects and supported clients across industries with planning, architecture and development.

2013 – 2015
Developer & Software Consultant · LMIS AG
I developed iOS and Android apps and advised clients on planning their applications.

EDUCATION

2012
M.Sc. Computer Science · Osnabrück University

2009
B.Sc. Physics with Computer Science · Osnabrück University

TECHNOLOGIES

AI & agents	AI agents, RAG, MCP, Mastra, LangChain / LangGraph, Vercel AI SDK, OpenAI SDK, Claude SDK Amazon Bedrock, Amazon SageMaker, Deep Agents, Python
Backend & Cloud	Node.js, NestJS, PostgreSQL, Redis, GraphQL, AWS (Lambda, ECS, Fargate, DynamoDB), AWS CDK, Docker, Auth0, OAuth 2.0 / OIDC, Stripe, PayPal Better Auth, AWS Cognito, AWS IoT, Terraform, CI/CD (GitHub Actions, GitLab CI), Express, Go, gRPC, Polar
Web & Desktop	TypeScript, React, Next.js, Tailwind CSS, Electron
Mobile (iOS & Android)	Swift / SwiftUI, Flutter, Bluetooth (BLE, Mesh), Firebase Kotlin, UIKit, RFID

CERTIFICATIONS

- AWS Certified AI Practitioner (AIF-C01) (2025)
- AWS Certified Solutions Architect - Associate (SAA-C03) (2024)
- AWS Certified Cloud Practitioner (CLF-C01) (2022)

REFERENCES

Translated from German.

> *"I recommend Phillipp without reservation for any role that calls for technical understanding, a sense of responsibility and a real passion for good solutions. Working with him means getting results and having someone you can rely on at all times."*
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> Sascha Dömer · CDO, LMIS AG

> *"Phillipp is technically strong, a true team player and someone who gets things done and moves projects forward. An asset to any project! He thinks ahead, takes responsibility and goes the extra mile when needed. His commitment helped us deliver important, complex features, ship several app releases and significantly improve the codebase through refactoring."*
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> Andreas Klassen · Product Owner, Albrecht Jung GmbH & Co. KG

> *"Phillipp understood what mattered to me as a technical analyst and translated our requirements into a well-designed application. The platform now handles what used to be daily manual work: automatically scanning hundreds of assets for harmonic price patterns. I particularly valued his independence and the thought he put into complex questions."*
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> Thomas B. · Managing Director and Technical Analyst

> *"As a CEO, I especially appreciate it when things simply work. That is exactly what Phillipp delivered: a clean, reliable Flutter app that lets our customers try our sensors directly. In very little time, we had a working solution that our customers love, without me having to worry about the technical details."*
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> Eike Kottkamp · CEO & Founder, addSensors GmbH

> *"Phillipp thinks and acts as a true team player. He listens, actively supports others and shares his knowledge with great commitment. His clear communication and patience helped our team grow in architecture, programming and project work. He was a role model for all of us, both professionally and personally. I am very grateful to have been part of his team. Anyone working with Phillipp gains a skilled professional and a valued colleague."*
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> Waldemar Weißhaar · Senior Android Developer, Freelancer

> *“Phillipp supported us for around a year and a half in developing and improving various internal applications. During that time, I came to know him as an extremely reliable developer who delivers high-quality work and contributes constructively, with a focus on finding solutions. He also worked exceptionally well with our different development teams. I was very happy with Phillipp’s work and would gladly work with him again on future projects.”*
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> Niklas Glaab · Lead Maintenance Application Development, Bilfinger