Christian Worsch

Software Architect & Senior Developer, Freelance

worsch.chris@gmail.com
+49 176 21445134
Gartenstr. 13, 75449 Wurmberg,
Germany



PROFILE

I design and build scalable web platforms, cloud architectures and LLM integrations. In software development since 2017, freelance since 2025. I work hands-on in the code while thinking in systems: architectures that teams understand and keep extending, implemented by me together with them.

What has not changed in all those roles: I prefer simple, sustainable solutions to short-term workarounds, I design architectures that the team can understand and extend without me, and I stay in the code instead of handing over slide decks. Tests, CI/CD and documentation are part of the delivery, not an afterthought.

PROFESSIONAL EXPERIENCE

Lead Developer 08/2025 to today · Permanent
Nuvus, Virtual hardware and digital twins for automotive and space

- Architecture decisions, team leadership and technical mentoring in a startup engineering team
- External architect and lead engineer in client projects delivered through Nuvus, see Bosch and WeDaVinci below
- Selection, vetting and placement of developers and freelancers for client projects

Technologies: Python, TypeScript, React, Azure, Terraform, Docker

Software Architect and Lead Engineer
01/2026 to 10/2026 · via Nuvus
Bosch, Industrial engineering, digital twin platform

- Set up the monorepo for a multi-tenant digital twin platform and owned architecture, infrastructure and core backend components as the most active contributor
- Tenancy for SaaS and bring-your-own-cloud from one codebase, identity on self-hosted Zitadel with OIDC and automated tenant onboarding
- Terraform on Azure Container Apps, Service Bus, IoT Hub and Key Vault, private network with a single public proxy, migration from Cosmos DB to MongoDB Atlas
- Dedicated ingest service with certificate-based MQTT ingress, Prefect 3 workflow engine, security hardening, Angular to React migration, shared CI/CD templates

Technologies: Python, FastAPI, React, TypeScript, MongoDB Atlas, Azure, Terraform, Zitadel, MQTT, Prefect

AVAILABILITY

Available for new projects. Remote by default, on-site days possible, regular on-site work near Stuttgart, Karlsruhe or Pforzheim. Direct or through intermediaries.

LINKS

linkedin.com/in/christian-worsch
xing.com/profile/Christian_Worsch5
github.com/cworsch
freelancermap.de/profil/christian-worsch

BACKEND

Python (FastAPI, Django, Flask)
Node.js (Express, Fastify)
PHP (Laravel, Symfony)
Kotlin

FRONTEND

React (Redux)
TypeScript
Next.js
Tailwind CSS
Vue.js

DATA AND AI

PostgreSQL, pgvector
MongoDB Atlas
Qdrant
Pandas, NumPy, spaCy
LLM integration (Claude, OpenAI)

Senior Full-Stack Developer 08/2025 to 05/2026 · via Nuvus
WeDaVinci GmbH, AI video platform

- Designed and built the user management service (FastAPI, PostgreSQL) as central hub for authentication, subscriptions, credits and billing
- SuperTokens authentication with Google sign-in and session cookies shared across subdomains, legacy user management replaced
- Stripe subscriptions and a credit model with reservation and refund for long-running video generation
- React storyboard and video editor with trimming, versioned variants, image-to-video and PDF/ZIP export; frontend rebuilt from Angular to React

Technologies: Python (FastAPI), PostgreSQL, SuperTokens, Stripe, React, TypeScript, Tailwind, Docker, AWS

Senior Full-Stack Developer 04/2025 to 07/2025 · Freelance
Quantrefy GmbH, ESG data analytics

- Middleware for connecting and aggregating five external ESG data provider APIs with PHP (Laravel)
- Integration into the Quantrefy platform for analysis, reporting and forecasting of ESG data
- Test automation with Pest and unittest including GitHub Actions

Technologies: PHP (Laravel, Symfony), Python (FastAPI, Pandas), Node.js, AngularJS, TypeScript, Docker

Backend Developer 09/2024 to 03/2025 · Permanent
dmTECH GmbH, Retail, GenAI platform

- Co-developed the enterprise GenAI platform dmGPT with FastAPI, Chainlit and React
- APIs for document management, integration of external sources such as SharePoint and connection of Claude for internal process optimisation
- Specialised AI assistants, among them an incident management assistant, plus support of all departments working with dmGPT

Technologies: Python, React, TypeScript, PostgreSQL, pgvector, Qdrant, Kubernetes, Azure

Technical Implementation Engineer
11/2022 to 05/2024 · Permanent
Cobrainer GmbH, HR tech, talent platform

- Integrated four enterprise customer systems into the Cobrainer talent platform
- Migration and integration APIs plus a web-based service management tool for monitoring running integration projects
- OpenAI API integration for automated job descriptions and personalised sales demos

Technologies: Python (Django, FastAPI), Kotlin, React, TypeScript, Azure, AWS

CLOUD AND DEVOPS

Microsoft Azure, AWS
Terraform
Docker, Kubernetes, Helm
GitHub Actions, GitLab CI
MQTT, Prefect

LANGUAGES

German: Native
English: Business fluent (C1)

EDUCATION AND CERTIFICATES

IHK certified IT Project Coordinator
2019

Business Informatics, Pforzheim University
2013 to 2015

State-certified technical assistant, Robert-Bosch-Schule Stuttgart
2007 to 2009

IT Consultant 04/2021 to 10/2022 · Permanent

BCM Solutions GmbH, IT consulting

- New sales platform with PHP and Vue.js and redesign of existing sales software
- Technical lead of an internal department for system integrations and interface architectures
- Integration of customer systems via API connections and middleware services

Technologies: Python, PHP, Vue.js, Node.js, React, Kubernetes

Full Stack Developer 02/2019 to 11/2020 · Permanent

Sternad Software GmbH, Software for small and medium businesses

- Independently built a custom ERP system for three SME customers including replacement of their legacy systems
- Customer consulting on process digitalisation and data migration
- Modernised a legacy crisis management system with new API integrations

Technologies: Python (Django), PHP (Symfony), Vue.js, Docker, PostgreSQL

Full Stack Developer (apprenticeship)

06/2017 to 01/2019 · Permanent

heureka e-Business GmbH, E-business agency

- Rebuilt the company website and developed internal tools for time tracking and project evaluation
- Introduced Docker and migrated from SVN to Git including workshops for colleagues

Technologies: ColdFusion, React, JavaScript, Docker, PostgreSQL