Denis Knaack
Software Development & Consulting

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Profiles

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Throughout my career spanning over 20 years, I have worked with various programming languages, tools, and services. My passion for technology motivates me to continually evolve. Clients appreciate my ability to integrate new technologies and provide solutions that often exceed their goals.

Even after many years of experience in this field and countless projects, my enthusiasm for software development has not diminished; it remains as vibrant as on the first day.

Professional Experience

KNAACK.IT Freelancing (C#, Node.JS, TypeScript, React, SQL)	02/2015 – today Steinberg am See, DE
Omniga GmbH & Co. KG Software Development Professional (C#, SQL, JavaScript)	11/2012 – 02/2015 Regensburg, DE
SmilingBits GmbH & Co. KG Senior Manager Software Development (C#, SQL, JavaScript)	04/2011 – 11/2012 Regensburg, DE
SmilingBits GmbH & Co. KG Manager Software Development (C#, SQL, JavaScript)	01/2008 – 04/2011 Regensburg, DE
GoNamic GmbH Manager Software Development (C#, SQL, JavaScript)	10/2003 – 01/2008 Regensburg, DE

Education

BSZ Matthäus Runtinger BSIII Fachinformatiker Anwendungsentwicklung (IT Specialist in Application Development)	2000 – 2003

Freelance Projects (Excerpt)

Fintech Startup — C#
Development of backend solutions and APIs for a fintech startup, utilizing C# and Microsoft SQL Database.

Automated Email Dispatch (Implementation of Automated Invoice Email Distribution) — C#
Implementation of an automated system for emailing invoices, developed in C#.

Visa Policy Update — C#
Implementation of new requirements for visa payment processing using C#.

Website Relaunch — C#
Redevelopment and modernization of a website using C#.

Password Validation — C#
Transition from plain text passwords to hashed and salted passwords, implemented in C#.

Mailgun Integration — C#
Implementation and documentation.

Consulting GraphQL
Advising a development team on GraphQL implementation and best practices.

GraphQL Backend — NodeJS / Typescript
Development of a sample implementation for a GraphQL backend using NodeJS and TypeScript.

NNTP Client — C#
Development of an NNTP client using C#.

Plug-In System — C#
Enhancement of a Windows client with a plug-in system, developed in C#.

Auto-Updater — C#
Implementation of an automatic update system for a Windows application.

COVID Scanner App — React Native
Creation of an app for scanning and displaying information from QR codes, developed with React Native.

Marketing Website — React / TypeScript
Development of a website for a mid-sized company, utilizing React and TypeScript.

AI Chatbot — React / TypeScript
Design and integration of an AI chatbot based on ChatGPT, implemented using React and TypeScript.

UI / UX — Figma
Creation and presentation of a user interface for a web application using Figma.

Automatic Update Feature for Electron App — NodeJS
Development of a self-updating mechanism tailored for an Electron application, utilizing NodeJS.

GraphQL Backend — NodeJS / TypeScript
Development of an API with integration to a PostgreSQL database, implemented using NodeJS and TypeScript.

Chrome Extension — TypeScript
Development of a Chrome extension with ChatGPT integration, implemented in TypeScript.

Outlook Plugin — TypeScript
Creation of a plugin for easier management of filters and folders in Outlook, developed in TypeScript.

Desktop Client — NodeJS / Electron / TypeScript
Development of a cross-platform client for Windows, Mac, and Linux for processing and analyzing AAF files, using NodeJS, Electron, TypeScript, and C#.

CI / CD — Github Actions
Creation and implementation of a Continuous Integration and Continuous Delivery (CI/CD) process for a team with various projects, utilizing GitHub Actions.

Progressive Web App — React / TypeScript
Development of a Progressive Web App (installable, offline-ready) with features including authentication, email sending, and more, built using React and TypeScript.

Skills

JavaScript / TypeScript (Expert)
Web, Desktop, and Mobile Applications (React, Vue, Angular, Svelte)

C# Development (Expert)
Web, Desktop, Server, and Mobile Applications

APIs (Expert)
GraphQL & REST APIs

SQL Databases (Proficient)
PostgreSQL, Microsoft SQL Server, MariaDB, MySQL, SQLite

NoSQL Databases (Proficient)
MongoDB, Firebase, Redis

Serverless (Proficient)
AWS Lambda, Google Cloud Functions, Azure Functions

Edge Computing (Competent)
Edge Functions & Edge Runtime

DevOps (Competent)
Docker, Kubernetes, GitHub Actions, GitLab

Spoken Languages

German (native)

English (B2)