

DOMENIC SCHUMACHER

Senior Software Engineer, Agentic Engineering and AI Platforms

- +49 151 50164313
- dome.codes@gmail.com
- dome.codes
- Hubertusstraße 21, 65549 Limburg
- github.com/domecodes



PROFILE

Senior Software Engineer at adesso SE. Focus: Agentic Engineering and AI Platforms in banking, currently on a customer project at Deka Bank. Over ten years of fullstack, architecture, CI/CD and cloud. Differentiation from generic RAG roles: complete agent harnesses, guardrails and operations. Cursor incl. Cloud Agents, SkillMDs/skills library, Rules, multi-agent workforces, LiteLLM, Backstage, n8n, vLLM, Kubernetes, Terraform. Eval and quality checks are part of the harness. Grok Bot and a dedicated Agent/Personal OS serve as a practice lab for controllable workforces; complemented by Gemini, local LLM runtimes and Vercel in the stack.

SELECTED PROJECTS

Senior Software Engineer

adesso SE • Deka Bank Customer project AI

- since 03/2025 Rhine-Main / Banking
- Building complete agent harnesses (Skills, Rules, Guardrails, Cloud Agents, multi-agent workforces) and operating them as an Agent/Personal OS
- Agent and platform practices: guardrails, tooling, eval/feedback loops, auditable workflows
- AI in banking: agents and platform layers; embeddings/RAG where project-relevant, usable by the team
- Playbooks and skills instead of ad-hoc prompts. Harness for peer handoff and token-saving routing, illustrated by Manta and the tech stack Domenic runs there.

Software Architect & Lead Developer

- Finliq GmbH
- 08/2023 – 01/2025 Düsseldorf
- Development of a tax and accounting platform with PSD2 API and DATEV integration
- Implementation of complex payment processing and a platform-integrated messaging system
- Leading the development team and establishing best practices in software architecture
- Delivery of CI/CD pipelines and a microservices architecture

Lead Developer

- Finliq GmbH / Finbc GmbH
- 01/2022 – 02/2023 Düsseldorf
- Architecture and implementation of a factoring platform for SPVs with React.js and Material UI
- Design and development of REST business backend APIs with a focus on scalability
- Building the platform business logic and establishing Docker-based development processes
- Leading the development team and implementing agile development methods

SKILLS

- Agentic Engineering
- Guardrails
- Cursor & Cloud Agents
- LiteLLM
- Backstage
- n8n
- X Grok / xAI
- Gemini
- Local LLM
- Vercel
- TypeScript & JavaScript
- Frontend
- Frontend & Backend
- API Integration
- State Management
- CI/CD
- Kubernetes
- Docker
- Terraform
- Agile Development
- Technical Expertise
- Problem Solving
- Teamwork
- Willingness to Learn
- Versatility

LANGUAGES

- German
- English
- French

EDUCATION

- B.Sc. Media and Communications Informatics / IMC
- Rhine-Waal University of Applied Sciences
- Sept 2013 – January 2020

PROJECTS

AI Platforms & Agentic Engineering

adesso SE • Deka Bank **Customer project AI**

📅 since 03/2025

Technologies Applied

Python, LLM-APIs, Embeddings, Agents, Cursor, Cloud Agents, SkillMDs, Guardrails, LiteLLM, Backstage, n8n, vLLM, FastAPI, Docker, Kubernetes, Terraform

- Senior Software Engineer at adesso SE; focus on Agentic Engineering and AI Platforms in banking
- Building complete agent harnesses: SkillMDs/Skills, Rules, Guardrails, Cursor incl. Cloud Agents, multi-agent workforces
- Platform layers: LiteLLM, vLLM, n8n, Backstage; embeddings/RAG where project-relevant
- Eval and quality checks as part of the harness; Grok Bot and Agent/Personal OS as a practice lab
- Playbooks and skills instead of ad-hoc prompts. Harness for peer handoff and token-saving routing, illustrated by Manta and the tech stack Domenic runs there.

Tax and Accounting Platform

FinIQ GmbH **Düsseldorf**

📅 08/2023 – 01/2025

Technologies Applied

TypeScript, React, Next.js, Material UI, No Code Backend, PSD2, DATEV, PostgreSQL, GitLab CI/CD, Jest, Playwright, Linux, Docker, BanksAPI, Swagger, NextAuth, nginx, keycloak

- Development of a tax and accounting platform for a tax consultancy with a focus on payments
- Integration of PSD2 API, no-code backend REST APIs and platform-integrated messaging
- DATEV connectivity for seamless accounting workflows
- CI/CD pipelines with GitLab and automated tests; cloud technologies for scalable deployments

Car Leasing Application

Leaseteq GmbH, Düsseldorf

📅 03/2023 – 08/2023

Technologies Applied

TypeScript, React, Next.js, No Code Backend, Material UI, IDNow, REST APIs, MongoDB, Event-Driven Architecture, WebSockets, Auth0, Jest, GitHub Actions, NextAuth, nginx, keycloak

- Development of a leasing application for a Swiss startup specializing in Tesla leasing
- Frontend workflows for digital signatures (IDNow), PDF contract generation and connecting no-code backend REST APIs to AML and KYC services
- Event-driven architecture for real-time updates and an authentication system with Auth0

Factoring Platform for SPVs

Finbc GmbH, Düsseldorf

📅 01/2022 – 02/2023

Technologies Applied

TypeScript, React.js, Next.js, Material UI, NestJS, Docker, Microservices, Redis, PostgreSQL, Jest, NextAuth, nginx, keycloak

- As Lead Developer and Software Architect, design and implementation of REST business backend APIs via a no-code application, including frontend integration
- Leading development of the platform business logic, supporting the engineering team and establishing Docker-based processes
- Microservices architecture with event-driven design and message queues for asynchronous processing

Order Management Extension

SWARC GmbH, Düsseldorf

📅 09/2021 – 12/2021

- Extension of an order management system with custom forms and planning interfaces, building a user permission system in Angular and extending MySQL database capabilities
- Integration of OAuth 2.0 and OpenID Connect for secure user management
- Implementation of CI/CD pipelines and automated tests

Technologies Applied

TypeScript, Angular, MySQL, OAuth 2.0, OpenID Connect, Keycloak, TypeORM, Cypress, Jenkins, Docker

Medical Administration Application

SWARC GmbH, Düsseldorf

📅 05/2021 – 08/2021

- Extension of a medical administration platform with use cases and UI components using Storybook
- Angular-based frontend UI with documented library components and automated tests
- Integration of GraphQL for efficient data retrieval and progressive web app capabilities

Technologies Applied

Angular, Storybook, GraphQL, MySQL, TypeORM, Jest, PWA, Azure DevOps, Docker

Logistics Software

SWARC GmbH, Düsseldorf

📅 01/2021 – 04/2021

- Development of a new logistics platform for a logistics company, implementing business workflows and a detailed permission system
- Backend with Java and Spring Boot; frontend with Angular and Material UI
- Integration of microservices and event-driven architecture for improved scalability

Technologies Applied

Java, Spring Boot, Angular, Material UI, PostgreSQL, Hibernate, JUnit, Mockito, Docker, Kubernetes, Azure

Time Tracking System

SWARC GmbH, Düsseldorf

📅 09/2020 – 12/2020

- Development of a time tracking system for a mid-sized company, including technical concept design, a React.js-based frontend for reporting and statistical evaluations
- Integration of WebSockets for real-time updates and implementation of a progressive web app

Technologies Applied

React.js, Node.js, Express, MongoDB, WebSockets, PWA, Jest, Docker

Responsive Company Profile

Angular Application, Düsseldorf

📅 05/2020 – 08/2020

- Creating a site map of the previous company website for page identification
- Design proposal via HTML and CSS for the website redesign
- Implementing the redesign as a modern single-page application with Angular and SEO optimizations

Technologies Applied

Angular, TypeScript, Bootstrap, SCSS, Git, Jenkins, Cypress

WordPress Administration

Online Marketing, Aachen

📅 01/2020 – 04/2020

Technologies Applied

WordPress, PHP, MySQL, CloudFlare, SEO Tools

- Administration of an existing WordPress website: migration from an old to a new domain with redesign via WordPress plugins
 - Conversion-rate optimization through landing pages for effective customer acquisition
 - Integration of security plugins and performance optimizations
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Responsive Web Application for LANUV

LANUV, Kamp-Lintfort / Duisburg

📅 09/2018 – 04/2019

Technologies Applied

React JS, Node.js, Express, MongoDB, Elasticsearch, REST APIs, Docker, Jenkins, Git, SCRUM

- Architecture and development of a client application with React JS for use by LANUV staff
 - Development of an internal web framework as a foundation for further web applications
 - Integration of MongoDB for flexible data storage and implementation of RESTful APIs
 - Development of a modern search solution with Elasticsearch
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Anonymization of a Business Data Exchange Format

Concept and Development, Düsseldorf

📅 05/2018 – 08/2018

Technologies Applied

Java, JavaFX, XML, JUnit, Maven, Git, Encryption Libraries

- Creation of a concept for anonymizing business data with XML-based data exchange
 - Implementation of a Java-based GUI with a modern design pattern and integration of encryption technologies for secure data processing
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Mobile Application

Copago, Oberhausen

📅 01/2018 – 04/2018

Technologies Applied

React Native, Node.js, Express, MongoDB, JWT

- Development of a mobile application for payment processing with React Native
 - Integration of secure payment processes and implementation of biometric authentication
 - Building a scalable backend infrastructure with Node.js and MongoDB
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SKILLS

Platform & Agent Engineering

Beginner: ● ○ ○ ○ ○ Advanced: ● ● ○ ○ ○ Competent: ● ● ● ○ ○ Proficient: ● ● ● ● ○ Expert: ● ● ● ● ●

Programming Languages

JavaScript	● ● ● ● ●	TypeScript	● ● ● ● ●
Python	● ● ● ● ○	Java	● ● ● ● ○
C#	● ● ● ● ○	SQL	● ● ● ● ●

Frameworks/Libraries

React / React Native	● ● ● ● ○	Next.js	● ● ● ● ●
Shadcn/UI	● ● ● ● ○	Material UI	● ● ● ● ○
Tailwind CSS	● ● ● ● ○	SCSS / CSS	● ● ● ● ●
FastAPI	● ● ● ● ○	NestJS	● ● ● ○ ○

Databases

PostgreSQL	● ● ● ● ○	MongoDB	● ● ● ● ○
MySQL	● ● ● ● ○	Redis	● ● ● ○ ○

AI, ML & Agentic Engineering

Cursor	● ● ● ● ●	Cloud Agents	● ● ● ● ○
SkillMDs / Skills	● ● ● ● ○	Guardrails	● ● ● ● ○
LiteLLM	● ● ● ● ○	vLLM	● ● ● ○ ○
n8n	● ● ● ● ○	Backstage	● ● ● ○ ○
OpenAI API	● ● ● ● ○	Claude API	● ● ● ● ●
LLaMA Integration	● ● ● ● ○	Hugging Face Transformers	● ● ○ ○ ○
Embeddings / RAG	● ● ● ● ○	Eval / Quality Net	● ● ● ● ○
Gemini	● ● ● ● ○	LM Studio	● ● ● ○ ○
Antigravity	● ● ● ○ ○	Local LLM Runtime	● ● ● ● ○
Grok Bot / xAI	● ● ● ● ○	Playbook-/Prompt-Harness	● ● ● ● ●
AgentOS Orchestration	● ● ● ● ●	Token-/Cost-Routing (CURSOR_FIRST)	● ● ● ● ○
Skills-as-Runbooks	● ● ● ● ●	Higgsfield/I2V Prompting	● ● ● ○ ○

Cloud & DevOps

AWS	● ● ● ● ○	Azure	● ● ● ● ○
Docker	● ● ● ● ○	Kubernetes	● ● ● ● ○
Terraform	● ● ● ● ○	Jenkins	● ● ● ● ○
GitLab CI/CD	● ● ● ● ○	GitHub Actions	● ● ● ● ○
CI/CD	● ● ● ● ●	Vercel	● ● ● ● ○

Testing & QA

Jest	● ● ● ● ○	Cypress	● ● ● ● ○
Selenium	● ● ● ● ○	JUnit	● ● ● ● ●
Mockito	● ● ● ● ○	Playwright	● ● ● ● ●

Project Management

Jira	● ● ● ● ●	Confluence	● ● ● ● ○
Scrum Master	● ● ● ● ○		

Other

Git	● ● ● ● ●
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