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Languages: English (fluent), German (intermediate, B1 certificate), Russian (native)

Professional Summary

Hands-on Principal-level Solution and Software Architect with over 20 years of experience delivering complex systems across cloud, embedded, and web platforms.

Over the last 6 years at Deutsche Bahn, led architecture and delivery at the intersection of **embedded systems, IoT, AI/computer vision, and cloud** technologies, shaping next-generation autonomous train solutions and high-precision 3D mapping platforms.

Experience working in customer-facing roles, supporting early-stage solution validation, architecture reviews, and technical decision-making.

Extensive background in digital maps and navigation, having contributed to platforms used by **Microsoft**, major **Automotive OEMs**, and **Deutsche Bahn** through roles at Nokia, HERE Technologies, and Deutsche Bahn.

Skilled in building and scaling cross-functional teams from the ground up — from hiring and tech stack selection to goal setting and delivery. Focused on business impact through pragmatic, scalable architecture.

Technical Skills

- **Architecture:** Domain-Driven Design · Event-Driven Systems · REST APIs · C4 Model · Capella · Architecture as Code

- **Programming Languages:** C++ · C# · Java · Scala · JavaScript/TypeScript · Python · Bash

- **Databases:** PostgreSQL · MongoDB · Oracle

- **Cloud & DevOps:** AWS · AWS IAM (RBAC) · Docker · Kubernetes · Argo CD · Argo Workflow · CI/CD (Azure DevOps, GitHub, GitLab, Jenkins) · Infrastructure as Code

- **IoT & Embedded:** C++ · CMake · Robot Operating System · QNX · Embedded Linux · Boost · Integration of navigation and map services

- **Mobile Development:** Java · C# · .NET · Android · Windows Phone · Navigation and mapping applications

- **Web & Backend:** Java · Scala · Node.js · AngularJS · Maven · SBT · JavaScript/TypeScript

Professional Experience

Solution Architect(Principal Engineer–level responsibilities), Deutsche Bahn (Digital Schiene Deutschland) · Berlin, Germany

DBS develops cutting-edge technology systems for autonomous train operations, including computer vision, object detection, advanced positioning algorithms, and **in-house developed high-precision 3D mapping with dedicated processing pipelines, enriched with both infrastructural and dynamic data**.

Jan 2020 – Present

- **Cost Optimization:** Reduced annual **development costs by ~25%** (several hundred thousand EUR) by transitioning key map-related development from a third-party vendor to an in-house engineering team in Deutsche Bahn.

- **Customer-facing technical leadership:** Led customer-facing technical engagements and architecture reviews with internal stakeholders and external partners (Bosch, Siemens), including early-stage solution validation, proof-of-concept work, and technical alignment prior to large-scale rollout.

- **Leadership & Team Building:** Established and scaled a distributed engineering team for the Digital Maps initiative. Started as the sole Solution Architect and **built the organization from scratch into a team of 10+ internal and external developers and architects**, responsible for the development and delivery of the Digital Maps solution for Deutsche Bahn and partners such as Bosch and Siemens.

- **R&D and Innovation:** Led the creation of a high-definition 3D digital twin of the German railway infrastructure, used extensively for autonomous train R&D — including localization, perception, simulation, and **AI / computer vision** pipelines across internal DB teams and external partners.

- **Development Efficiency & Platform Consolidation:** Delivered a **2× improvement in development efficiency** by identifying and stopping two parallel workstreams building similar geospatial storage solutions; aligned stakeholders across teams and led development of a unified, generic geospatial storage platform that provided full coverage of all project requirements and was later successfully integrated into the visualization engine.

- **Architecture & Program Delivery:** Spearheaded the architecture and delivery of the Digital Maps platform used across multiple Deutsche Bahn programs (Sensors4Rail, Automated Train, Digital Knoten Stuttgart), collaborating with business stakeholders including **Bosch and Siemens**, alongside internal development teams. Sensors4Rail results were **successfully presented** at the ITS Hamburg Congress 2021.

- **Open Source & External Collaboration:** Led **open-source activities** for the Digital Maps component within Sensors4Rail, which was released as open source Onboard Map API GitHub

- **Platform Architecture across Cloud & Embedded/Edge Systems:** Designed scalable **backend systems**, **cloud infrastructure (AWS/Kubernetes)**, including **Kubernetes security configuration, secrets and key management**, and access control. Designed and integrated **embedded** map components for real-time railway systems, bridging cloud-based platforms with on-board and edge environments.

Software Architect, Luxoft (project with HERE Technologies) · Berlin, Germany

HERE Technologies is one of the world's leading automotive navigation providers, powering around 59% of all in-vehicle navigation systems in Europe. If you drive a recent Audi, Volkswagen, or Mercedes-Benz, there's a strong chance the map features you see were part of the solutions I contributed to.

Oct 2018 – Dec 2019

- Designed system architecture for integration of the **HERE navigation platform** into automotive embedded and cloud environments.

- Worked closely with customer and development teams to align navigation system architecture across cloud and embedded domains.

- Led architectural onboarding and training for new team members, and established a structured **knowledge transfer process** between Luxoft and the client.

Head of Engineering, Phonedeck (Tech Startup) · Berlin, Germany

Apr 2015 – Aug 2016

- Led the engineering department of a Berlin-based startup developing solutions at the intersection of mobile communications, telephony services, and CRM integration.

- Oversaw **R&D and the full software development lifecycle**, from product definition to deployment.

- Directed development and successful delivery of **telephony services in partnership with Ericsson**, showcased at **Mobile World Congress 2016**.

Team Lead / Senior Software Engineer, Nokia / HERE Technologies · Berlin, Germany

Nokia / HERE Technologies focused on building high-quality digital maps and location-based services for mobile platforms, delivering navigation, routing, and geospatial data used across major smartphone ecosystems globally.

Jul 2011 – Feb 2015

- Acted as a **technical expert in the Nokia API team during the Nokia–Microsoft integration effort**, enabling the adoption of Nokia Maps across Microsoft's mobile platforms.

- Led and contributed to development of key navigation products including **HERE Maps for Android**, **HERE Drive+ for Windows Phone**, and **Nokia Maps API**.

- Managed a team of 5 engineers; hired and onboarded talent; introduced **Kanban** and **TDD** practices to improve development efficiency and code quality.

- Collaborated closely with platform, UX, QA, and CI teams to ensure seamless delivery, high performance, and great user experience across devices.

Earlier experience as Team Lead and Senior Software Engineer, Quest Software · Kyiv Region, Ukraine

Companies: Quest Software, InvisibleCRM, Visiprise, Software MacKiev

Aug 2001 – Jul 2011