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

Professional Summary

Principal Solution Architect with over 20 years of experience designing and delivering complex distributed systems across **cloud, embedded, and edge platforms**, with a strong focus on **connected mobility and autonomous systems**.

Over the last 6 years at Deutsche Bahn, led architecture and delivery of large-scale platforms combining **IoT, AI/ computer vision, real-time data pipelines, and cloud-native infrastructure** for safety-critical autonomous mobility solutions.

Previously worked extensively in the **automotive and connected vehicle domain** at HERE Technologies and Luxoft, contributing to **in-vehicle navigation, embedded map platforms, and cloud-based location services** used by OEMs including **Ford, Volkswagen, and Audi**, as well as R&D initiatives integrating the **HERE Open Location Platform (OLP)** into connected car ecosystems.

Experienced in **end-to-end platform architecture spanning embedded systems, edge environments, and cloud backends**, and in leading distributed teams, customer-facing architecture engagements, and large-scale technical decision-making.

Focused on pragmatic, scalable architecture that delivers measurable business impact.

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 (projects with HERE Technologies and automotive OEMs) · Berlin, Germany

HERE Technologies is a leading provider of automotive navigation and location platforms, powering a large share of in-vehicle navigation systems in Europe. I contributed to solutions used by OEMs including Audi, Volkswagen, and Mercedes-Benz. *Oct 2018 – Dec 2019*

- **Led architectural activities for Ford R&D**, defining integration approaches for the **HERE Open Location Platform (OLP)** within connected vehicle and cloud environments.
- Designed system architecture for integration of the **HERE navigation platform** into **connected vehicle ecosystems**, spanning embedded in-vehicle systems and cloud backends.
- Delivered architecture and development for **Volkswagen and Audi** programs using **HERE embedded maps and cloud-based location services**.
- Worked closely with customer and development teams to align architecture across **vehicle, edge, and cloud domains**.
- Led architectural onboarding and training for new team members, and established structured **knowledge transfer processes** between Luxoft and HERE teams.

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 · Team Lead / Senior Software Engineer · Kyiv, Ukraine (2001–2011)

Quest Software · InvisibleCRM · Visiprise · Software MacKiev
Worked on enterprise software, automation tools, CRM integrations, and manufacturing systems, progressing from senior engineer to team lead roles.