

## Volodymyr Bezkorovainyi

Berlin, Germany

German Citizenship · Eligible to work in the EU without sponsorship

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

## Professional Summary

Hands-on Solution and Software Architect with over 20 years of experience delivering complex systems across cloud, embedded, and web platforms. **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 · Docker · Kubernetes · Argo CD · Argo Workflow · CI/CD (Azure DevOps, GitHub, GitLab, Jenkins) · Infrastructure as Code
-  **Embedded Systems:** C++ · CMake · 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, 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.
- **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 **2x 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](#)
- **Cloud, Backend & Embedded Architecture:** Designed scalable **backend systems, cloud infrastructure (AWS/Kubernetes)**, and **embedded map components** for integration into real-time railway systems.

### **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. The map services on Windows Phone 7/8 were powered by the APIs designed and implemented by our team.
- 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*

- Led development of infrastructure automation tools including **Quest Cloud Automation Platform, vOptimizer, and vConverter**, targeting large-scale hybrid IT environments.
- Developed backend connectors and synchronization logic for integrating Oracle and Deltek CRM systems with Microsoft Outlook.
- Developed components for manufacturing process planning (MRP) system, **desktop applications** and **Hewlett-Packard printer drivers** for Windows and macOS platforms.