

Oleksii Serdiuk









Lead Software Engineer @ HERE Technologies

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📅 Last update: May 2026


Languages


English	Ukrainian	German
Fluent	Native	Intermed.


Programming Languages


 C++ Expert 	 TypeScript Advanced 
 JavaScript Intermediate 	 Python Intermediate 


Skills

 **Programming & Markup Languages**
C++, C, QML, TypeScript, Python, Markdown, JSON, PCRE, SQL, HTML, XML, YAML, Pascal

 **Frameworks**
Qt 5, Qt 4, RxJS, Protobuf, Node.js, GTest, Jest

 **Tools**
Qt Creator, Visual Studio Code, Visual Studio, Git, Linux, Vim, Bash

 **Operating Systems**
Linux, Windows, FreeBSD

 **Virtualization**
Proxmox VE, Docker Compose, LXC

Certifications

Certified Qt Developer
Pearson VUE
Qt Essentials

Certified Qt Specialist
Pearson VUE
Core C++ for Qt Developers

Additional Information

More details about my experience are provided on the next pages.

Software Engineer with more than 15 years of experience in software engineering, cross-platform development, and server management. Open to learn new languages and technologies. Interested in Open Source, home automation, and selfhosting.

Core technologies: **C++**, **TypeScript**, **Qt Framework**, **Qt Creator**, **Visual Studio Code**, **Linux**, **Git**, **Bash**, **Vim**, **KDE**.

Experience

HERE Technologies Berlin, Germany
Lead Software Engineer Oct 2016 - Present
Contributed to **HERE Auto**, **HERE Navigation**, and few other embedded navigation projects.

HERE Technologies Berlin, Germany
Software Engineer Jan 2015 - Sep 2016
Contributed to several iterations of **HERE Auto** embedded navigation.

Barco Control Rooms Saarbrücken, Germany
Software Engineer Oct 2012 - Dec 2024
Contributed to **software for bedside multimedia terminals** in hospitals.

Nokia Ulm, Germany
SW Engineer, UI Jun 2011 - Sep 2012
Contributed to **Meltemi R&D project** (Linux-based mobile platform).

WP2P Technologies Kyiv, Ukraine; Borlange, Sweden
C++/Qt Developer Oct 2009 - Feb 2011
Developed **WP2P Client** for a new data transfer protocol.

Various Companies Kyiv, Ukraine
Working Student Dec 2005 - Oct 2009
Part-time roles as technical support (Dec 2005 - Nov 2007) and PHP developer (Nov 2007 - Oct 2009) while completing studies.

Education

NTUU "Kyiv Polytechnic Institute" Specialist
Analyst of Computer Systems Kyiv, Ukraine • 2007 - 2009
Degree project: **Algorithms of using GIS means in the specialised tasks of managing graphical objects of forestry**.
More details: <https://oleksii.name/en/projects/archived/degree>

NTUU "Kyiv Polytechnic Institute" Bachelor
Computer Science Kyiv, Ukraine • 2003 - 2007
<https://kpi.ua/en>

Notes

Specialist Degree

In the Ukrainian education system of my time, after earning a four-year Bachelor's degree, students could pursue either a Specialist program (1½ years) or a Master's program (2 years). This degree was comparable to Diplom in Germany or Engineer's degree in some other EU countries.

https://en.wikipedia.org/wiki/Engineer's_degree

Open Source Work

I contributed to a variety of Open Source projects. See [my GitHub page](#) and a non-exhaustive list here: openhub.net/accounts/leppa/positions

Interests

🏠 Home Automation

Home Assistant, ZigBee, ESPHome, Raspberry Pi, MQTT, IoT

🖥️ Selfhosting

Proxmox VE, LXC, Docker, Virtual Machines, Proxmox Backup Server, Traefik, Unifi, Apache, Nginx

🧠 Local LLMs

Ollama, Open WebUI, Invoke AI, MCP Servers

🎮 Gaming

Strategy, Stealth, Rich Story

✈️ Traveling

Additional Information

Certificates, recommendation letters, and additional project details are available online at oleksii.name.

Informaion about my experience before I started at **HERE Technologies** is provided on the next page.

HERE Technologies

HERE Navigation

2018 - Present

Initially known as **HERE Navigation on Demand**.

- During early stages:
 - Contributed to bringing application **from PoC to production-ready stage**.
 - Joined with basic JavaScript experience only, **learned TypeScript and tooling on-the-fly** while delivering production-ready features.
 - **Utilized 10+ years of C++ / Qt / QML experience** to accelerate TypeScript adoption.
 - **Participated in the architecture definition**, leveraging C++ background to inform TypeScript component design decisions.
 - Contributed to ReactXP UI and components.
- During the mature stage:
 - Transitioned to the team responsible for **developing and maintaining C++ components**.
 - **Analyzed and fixed** both internal and customer-reported **bugs**, as well as **performance issues**.
 - **Took ownership of the guidance and route matcher** TypeScript components, was a sole maintainer during some stretch of time.
 - **Introduced** and maintained the **waypoint consumption** TypeScript component.
- Contributed in all three capacities: as an **individual contributor**, as a **feature-team member**, and through the **cross-team collaboration**.
- **Collaborated with outside teams** to ensure project interoperability.
- **Ramped up and assisted new team members** in getting familiar with the project.

Keywords: **C++**, **TypeScript**, **Qt 5**, **RxJS**, **Protobuf**, **Node.js**, **Jest**, **Python**
<https://www.here.com/products/here-navigation>

HERE Auto

2015 - 2018

- Contributed to the development of **several iterations of the application**.
- **Improved application experience** by eliminating a variety of bugs and crashes.
- **Improved startup and shutdown experience** by ensuring that components are created and torn down in the proper order.
- **Analyzed and improved memory usage**, as well as **eliminated memory leaks**.
- **Contributed** various general **fixes, improvements, and refactoring changes**.

Keywords: **C++**, **Qt 5**, **QML**, **JavaScript** (QML falvor)

Select Open Source Projects

Convert to Wealthfolio

A command-line utility to convert various CSV formats into Wealthfolio format.

Author, **TypeScript**, **Node.js**, **Jest**

github.com/leppa/convert-to-wealthfolio

TAO Translator

Online translator with support for several translation services.

Author, **C++**, **Qt 5**, **Qt 4**, **QML**

github.com/leppa/taot

TSP Solver and Generator

Generator and solver for Traveling Salesman Problem tasks.

Author, **C++**, **Qt 4**, **Qt 5**

tspsg.com

Fahrplan

A journey planner and timetable application for a lot of train and public transport lines in Europe, USA and Australia.

Maintainer, **C++**, **Qt 5**, **Qt 4**, **QML**

fahrplan.smurfy.de

Barco Control Rooms

Bedside multimedia terminals for patient entertainment in hospitals

2012 - 2014

- Contributed to the development of the application.
- Developed **C++ QML plugins** for the integration of:
 - **CouchDB**;
 - **SFLphone**;
 - **PulseAudio**;
 - **hardware specific interfaces**, like receiving events from hardware buttons and card readers, controlling backlight, etc.
- Made some customizations and bug fixes to the **Maliit framework**.
- Created and maintained **Debian packages** for the client application and its dependencies.
- Backported existing Debian packages from newer versions of Ubuntu to Ubuntu Precise (12.04).

Keywords: **C++**, **Qt 5**, **QML**, **JavaScript** (QML flavor), **Debian packaging**

Nokia

Meltemi mobile platform

2011 - 2012

- Participated in the creation of **early prototypes of the applications**.
- Developed **UI components** for use in a wide number of applications.
- Analyzed and optimized the UI components' performance, identified problematic areas and reported issues to developers of the underlying components.
- Wrote documentation for components.
- Provided support to applications developers with integration of aforementioned UI components.

Keywords: **C++**, **Qt 5**, **QML**, **JavaScript** (QML flavor)

WP2P Technologies

WP2P Client

2009 - 2011

- Developed **WP2P Client Core** for the new data transfer protocol.
- Implemented **WP2P Client GUI** from the provided designs and sketches using QML and Qt 4.
- Participated in the data transfer protocol development, enhancement, and testing.
- Developed new and enhanced existing support libraries.
- Developed the official WP2P Technology website.

Keywords: **C++**, **Qt 4**, **PHP**, **Drupal**