

Oleksii Serdiuk

Lead Software Engineer @ HERE Technologies

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📅 Last update: Apr 2026

Languages

English	Ukrainian	German
Fluent	Native	Intermediate

Programming Languages

 C++ Expert ■■■■■	 TypeScript Advanced ■■■■□
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 JavaScript Intermediate ■■■□□	 Python Intermediate ■■■□□
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Skills

Programming & Markup Languages

C, QML, Markdown, JSON, PCRE, SQL, HTML, XML, YAML, Pascal

Frameworks

Qt 4, Qt 5, 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

Additional Information

See the next page for more information about my experience.

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

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** embedded navigation, as well as few other 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 the Diplom in Germany or the Engineer's degree in Europe.

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

Certifications

Certified Qt Developer

Pearson VUE

Dec 2011

Qt Essentials

Certified Qt Specialist

Pearson VUE

Dec 2013

Core C++ for Qt Developers

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

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

Additional Information

See the last page for information about my experience before I started at **HERE Technologies**.

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

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**