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👋 Hello there! I'm Alexey and I started my software engineering journey more than 20 years ago. The selected greatest and craziest adventures thus far are:

- expanding the media tech frontier at Verizon Media / Yahoo Ryot Lab by building [PlayAR](#), Yahoo Immersive, and internal cloud rendering cluster with Unreal Engine with Pixel Streaming, SideFX Houdini, Adobe AfterEffects and Remotion;
- building a [software agency](#) that earned a [2020 recognition award](#);
- contributing [almost 100 OdoO Community modules](#) that help operating hundreds of service companies and getting assignment to [the project steering committees](#) as a recognition;
- opening [OsmAnd](#) to the iOS market and 3D maps & cartography league by delivering a brand-new [OpenGL-based core](#) that got me a [Wikipedia mention](#) as OsmAnd's developer;
- building an [inertial motion capture system](#) at [Inertial Labs](#) and contributing to the [Linux Kernel](#) to make it possible;
- expanding the AR/VR tech frontier at [Innalabs](#) with MEMS-based 6DOF “mouse”, motion-capture VR training systems with stereo vision;
- authoring a MIPS III R5900-based “[Emotion Engine](#)” CPU emulator for the company's security research enabling it to detect and verify the signatures and watermarks on the bootloader.

My passion lies in the hands-on exploration of software engineering frontiers.

Top Skills

Software Architecture

Tech Leadership

Software Engineering

Research & Development

Platforms: Linux • Embedded Linux • Android • iOS • Windows • MacOS • AWS • GCP • Docker • Kubernetes

Languages: C++ • Python • Java • Kotlin • JavaScript • TypeScript • Objective-C • Swift

Frameworks: Qt • Flask • Django • Android • iOS • Unreal Engine • React.js • React Native • Next.js • NestJS

Libraries & APIs: Standard Template Library (STL) • Boost • OpenGL • OpenGL ES • Vulkan • Redux • Redux-Saga

Tools: Visual Studio • IntelliJ IDEA • GitHub • Jira • CMake • Bazel • Gradle • NPM

Paradigms: Reactive Programming • Object-Oriented Programming • Microservices • Serverless • CI/CD • IaC

Notable Open-Source Contributions

- [PCRE4J](#) – a Perl-compatible regular expressions for Java;
- [Puppeteer-Capture](#) – a pixel-perfect stream capture for Chromium;
- [Linux Kernel](#) – a 1MBaud+ serial port speed support for OMAP platform;
- [Pylint](#) – Implicit Namespace Packages (PEP 420) support;
- [Google Yapf](#) – fixes for lambdas, dictionaries and argument lists;
- [Google Filament](#) – GLTF extras support, build improvements;
- [Apache Commons Collections](#) – Cartesian product iterator;
- [OCA's Project](#) – project roles support and related modules;
- [OCA's Timesheet](#) – utilization analysis and report, granular billing control, timesheet approval strategies;
- [OCA's Jira Connector](#) – Tempo Timesheets support;
- [OCA's HR](#) – advanced accrual time-off module, multi-currency contracts;
- [OCA's Bank Statements](#) – online bank statements support for PayPal, Wise.com, Braintree, statements auto-split module, etc;

Recent Professional Experience

Senior Full-Stack Software Engineer

Yahoo! (Jan 2019 – Dec 2023)

Engineered immersive content production-to-presentation software serving millions of unique users daily.

Chief Technology Officer

Brainbean Apps (Mar 2015 – Dec 2018)

Scaled the company from a one-man-band startup to a team of 50 with a turnover of €1.6M.

Lead Mobile Software Engineer

OsmAnd (Nov 2012 – May 2015)

Paved the way to the iOS users, allowing the product to have an extra 240k MAU today.

Education @ Applied Mathematics faculty @ National Technical University of Ukraine “Kyiv Polytechnic Institute”

Master's degree in Specialized Computer Systems
(2009 – 2011)

Bachelor's degree in Computer Engineering
(2005 – 2009)