

Ivan Melnikov

ivan.melnikov@outlook.com

Technical

Kotlin, Java, Python, TypeScript, Svelte, Node.js, Vue.js, BLE

Languages

Russian, English, Italian, French, Latin

Experience

Software Engineer | Google LLC

2021 - ongoing

- Conceptualized, architected, and maintained the entire DevOps pipeline, integrating Play Store signing, automated testing, and artifact storage, impacting thousands of testers across multiple countries and OEMs.
- Managed initial release cycles - coordinating with global teams to ensure smooth rollouts, growing the fleet from 0 to 3 million vehicles.
- Implemented Acoustic Echo Cancellation for Hotword detection system, synchronizing audio across multiple microphones in the car to cancel background noise.
- Designed and implemented on-device Hotword diagnostics like custom logging, heartbeat service, and debug data providers, to improve system reliability and debuggability. Developed end to end module for parsing diagnostic data.

Android Software Engineer | Bose Corporation

2018 - 2021

- Engineered and supported CI/CD pipeline for testers and customers of Bose Music
- Decreased build times from 30 to 15 minutes by optimizing Gradle logic
- Modeled and implemented Bose Music features used by hundreds of thousands of users
- Prototyped protocol for JSON message passing over BLE for media device control
- Lead weekly Android huddles with over 50 developers on the topics of joint code reviews, architecture, and best practices

Web Platform Engineer | Bose Corporation

2017 - 2018

- Rewrote the device tray and now playing screens in the SoundTouch app to optimize scalability across multiple resolutions and millions of customers
- Created data visualization dashboard from millions of anonymized customer reports to provide useful marketing insights
- Outlined and deployed an internal build distribution tool to facilitate application testing

Education

Johns Hopkins University

2023 - 2026

- MSc Artificial Intelligence

Worcester Polytechnic Institute

2013 - 2017

- BSc Computer Science
- BSc Physics, concentration in Nuclear Engineering

Projects

OpenSubs

2023 - ongoing

- Wrote an open-source NPM library that can be used to find and download subtitles from the OpenSubtitles forum. Available on NPM.

Lighthouse

2022 - ongoing

- Created an open-source Android library that facilitates SSDP device discovery using Kotlin Coroutines. Available for developer consumption via Maven central.