

Alexander Ivkin

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CTO and software engineer with 15+ years of experience building AI-powered products (voice agents, chatbots, image and video generation, computer vision, pose estimation, object tracking) and mobile applications. Proven ability to lead cross-functional teams, drive product roadmaps, and deploy production-grade AI solutions in healthcare and sports tech.

Career summary

January 2024 - now

Enabled Health Inc - Co-founder, CTO

AI physical therapy trainer for hospitals. Won MA challenge grant. Raised \$200k of funding. Launched two hospital pilots.

- Built and launched an iOS bedside trainer app integrating computer vision-based engagement tracking and exercise guidance for hospitalized patients.
- Designed and implemented a voice AI agent in production to communicate with patients, deliver exercise prompts, and collect feedback.
- Led R&D of new computer vision algorithms for body-pose estimation and motion tracking; integrated these models into the iPad app to monitor exercise form.
- Manage a mixed remote and on-site team of engineers, UX and motion designers, and data analysts; conduct direct hospital staff and patient interviews to validate features.
- Technology stack: Swift / SwiftUI for iOS; NodeJS/Typescript - web app; AI voice agents based on LLMs; Google Cloud, Firebase.
- 80% of new code is written by AI agents (Claude Code, Cursor, etc)

April 2021 - July 2025

Ace Trace app - Founder

Launched a mobile sports video editor app for iOS and Android. 6000 paid customers on a subscription model. AppStore rating of 4.4 with more than 1.1K reviews. MRR is \$15K. Exited the company through the app acquisition.

- Created and maintained a custom computer vision model that traces golf-ball flight in video; adapted ML algorithms to run efficiently on mobile devices (on-device inference with TensorFlow Lite).
- Grew to 6,000 paying subscribers and ~20,000 monthly installs on iOS / Android; fully bootstrapped (MRR ≈ \$15 K, App Store rating 4.4 with 1000+ reviews).
- Automated marketing partnership outreach by developing an AI agent that targets and drafts personalized messages to golf influencers on Instagram.
- Produce and edit marketing videos using generative AI tools (Runway, Veo, Sora) to generate golf shot visualizations and highlight reels.
- Conduct product research, user interviews, and roadmap prioritization; hire and manage freelance engineers and interns.
- Create and analyze application metrics (Mixpanel, Firebase Analytics) to guide feature development.
- Tech stack: SwiftUI and Jetpack Compose for mobile; Python for ML model training (PyTorch) and the tracking web service; Node.js / TypeScript for backend services; Docker; Google Cloud, Firebase.

April 2019 – March 2022

ALM Works, Inc. - Leading Software Developer

Lead the development of Structure.Gantt to support working on-premises and later created the cloud version of it. Set up a new development process for the teams.

Made a significant contribution to the Structure product, creating new features for both cloud and on-prem platforms.

Researched and shipped an MVP of a new product, "Cross-Team PI Planner" as part of the Structure Innovations team.

- Research and evaluate new product ideas
- Building prototypes
- Writing program code
- Writing automated tests
- Participating in architectural design discussions
- Participating in code review
- Conduct customer interviews, analyzing the feedback
- Creating a roadmap for the product
- Managing a project as a team lead
- Communicating with other teams, negotiating the workload
- Serving as an escalation point for technical support in case of complicated issues with the products
- Presenting company products at corporate events
- Interviewing candidates for software developer positions
- Mentoring new software developers

April 2015 – March 2019

OOO ALM Works - Leading Software Developer

Developed a new product Structure.Gantt from scratch, participated in the architectural design, and shipped it to the market (more than 5K installations). Participated in Structure Cloud, Structure.Pages, Structure.Testy and Structure projects. Presented all of these products to the customers at international conferences.

- Writing program code
- Writing documentation
- Writing automated tests
- Participating in architectural design discussions
- Participating in code review
- Performance analysis and optimizations
- Communicating with customers and analyzing the feedback
- Serving as an escalation point for technical support in case of complicated issues with the products
- Presenting company products at corporate events
- Interviewing candidates for software developer positions
- Mentoring new software developers

May 2013 – Jan 2016

Moscow Institute of Physics and Technology - Leading Software Developer (Part-Time)

Created a video simulator and a test system for video stabilization algorithm assessment.

Researched and prototyped computer vision algorithms for object tracking in the video prior.

- Research on existing algorithms
- Analyzing the product requirements
- Planning a project roadmap
- Organizing agile-based work process
- Writing program code
- Writing documentation
- Designed a user interface for the software
- Presenting results to customers
- Communicating with customers and analyzing the feedback

May 2012 – March 2015

OpenWay Group - Software Developer

Participated in web, mobile, kiosk, and ATM banking projects. Developed a new configuration management system from scratch, allowing the banking software to customize interactive screens.

- Analyzing the product requirements
- Writing program code
- Writing documentation
- Writing automated tests
- Investigating and solving technical problems of customers
- Performance optimizations

September 2009 — May 2013

InviewLab - Leading Software Developer (Part-Time)

Created from scratch, the spectral recognition software - a part of a device for sample material analysis. Reached the final in the Skolkovo Innovation Award 2011.

- Research of existing algorithms for spectral recognition and signal processing
- Analyzing the product requirements
- Planning a project roadmap
- Organizing agile-based work process
- Writing program code
- Writing documentation
- Designing a user interface for the software

August 2009 — May 2012

OpenWay Group - Quality Engineer

Developed a testing framework for creating and executing automated tests for the banking software. As a Payment System Interchange team leader, I covered most functionality with automated tests. Designed from scratch a testing strategy for the Mastercard Russian Switch project.

- Writing and review of testing documentation
- Designing testing strategies
- Planning of test cycles
- Project requirements analysis
- Automated test development and maintenance
- Executing manual and automatic tests
- Development of testing frameworks and tools
- Defects analysis

December 2007 — July 2009

Sun Microsystems (Oracle) - Quality Engineer

Took part in the Java Device Test Suite project. Created automated web reports for preparing for a release and monitoring team performance. Created a web application for testing documentation review.

- Writing and review of testing documentation
- Automated test development and maintenance
- Executing manual and automatic tests
- Development of internal web tools

Education

2013 - 2015 Moscow Institute of Physics and Technology

Unfinished Ph.D. in Computer Science. (I quit because I didn't want to write science papers - I wanted to build things)

2007 - 2009 St.Petersburg State Electrotechnical University

Master's degree in Electronics and Microelectronics.

2003 - 2007 St.Petersburg State Electrotechnical University

Bachelor's degree in Electronics and Microelectronics.

Independent coursework

2012 Algorithms: Design and Analysis (coursera.org)

2013 MongoDB for Developers (university.mongodb.com)

2014 Functional Programming Principles in Scala (coursera.org)

2015 Principles of Reactive Programming (coursera.org)

2018 Neural Networks (stepik.ru)

2022 Stanford University School of Engineering - Machine Learning online course

2024 MIT Introduction to Deep Learning

Technical skills

- Java, Kotlin
- Typescript, React, Redux, NodeJS
- Flutter, React Native, Swift, SwiftUI, Jetpack Compose
- Machine Learning - research and development of new models for computer vision
- Python, Docker, MongoDB

Personal features

- AI early adopter and enthusiast;
- Creative;
- Self-motivated;
- Responsible attitude to work;
- Team worker;
- Own my work.