

Ivan Tolkunov

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Employment

Software Engineer (contract)	<u>Secta Labs</u>	Sep 2023 - now
Secta: Generating professional AI headshots using AI. I work on various Machine Learning projects		
<ul style="list-style-type: none">Built a classifier that can detect AI-generated photos with 99%+ accuracyTech stack: PyTorch, FastAI, Python		
Software Engineer	<u>RehApp</u>	Dec 2022 - 9mo
RehApp: Web app for rehabilitation programs. I worked on UX improvements for doctors		
<ul style="list-style-type: none">Improved data quality by eliminating noise, so the doctors have more accurate and less ambiguous exercise chartsReorganized the patients' history page to provide faster overview, enabling at-a-glance viewing of rehabilitation progressAutomated reports made from patients' data, exportable to PDF or CSV to reduce manual data entryTech stack: PHP, HTML/CSS/JavaScript, MySQL		
Software Engineer	<u>London Stock Exchange Group</u>	Jun 2021 - 1y 6mo
Stock exchange and financial information company. I was responsible for authentication, authorization, administration		
<ul style="list-style-type: none">Achieved a 5x faster startup by migrating legacy Servlets to Spring Boot on AWS LambdaSaved \$120,000 annually, by adapting a Captcha library to OpenJDK 8 on SolarisReduced unauthorized access risk by 80% by integrating Node.js code with new MFA workflowInvestigated and fixed 30+ critical production issuesAutomated common deployment workflows, achieving a 5% reduction in deployment timeMigrated several of the biggest European banks to a new frontend workflowTech stack: Java, Node.js, AWS Lambda		
Software Engineer (freelancer)	<u>Upwork</u>	Dec 2019 - 1y 6mo
Various projects for customers from Europe and North America		

Education

Universidad De Córdoba	Erasmus exchange student Computer Engineering	2022 - 2023
Kyiv Polytechnic Institute	Master's degree in Computer Science Integrated Information Systems	2019 - 2024 (est.)

Projects

Links to demos and learn more at <https://tolkunov.dev/>

AI-powered TODO list

A smart TODO app you can control by your voice, built on Whisper and Mixtral models for natural language processing

Tech stack: Python, Django, Whisper, Mixtral, deployed to Modal

Smart Water Bottle

I made a bottle that tracks how much water you drink during the day with a mobile app and server sync

Tech stack: ESP32, C, Java, React Native, Fusion 360, MongoDB, deployed to GCP

Skills

AI: PyTorch, FastAI, Whisper, LLaMA

Languages: Python, Java, PHP, JavaScript

Databases: Pinecone, MySQL, MongoDB