

ILLYA STARIKOV

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ill-ya star-y-kov | He/Him | 🇷🇺🇺🇸
 $\int_{2017}^{\infty} \text{expertise (Data Science, Cloud, System Design)} dt = 7+ \text{ YoE}$
Software Engineer applying AI & ML to build the future of digital communication. Pursuing opportunities to put a dent in the universe.


VOCATION

9/2023		Software Engineer <i>Research, Δ Labs</i> Google Project Starline <i>San Francisco Bay Area</i> <ul style="list-style-type: none">Designed the end-to-end factory software architecture, adopted by Google and HP<ul style="list-style-type: none">Aligned 25 cross-functional engineering managers, ICs, security council, and program managementBrought up in-house upload server infrastructure, facilitating factory data access for Google and HPImplemented the standard factory interface for Starline's OS, responsible for interfacing, testing, and calibrating<ul style="list-style-type: none">Integrated six subsystems into said interface, including one audio functional testFormulated Diagnostics framework, responsible for system health checking as a factory final-assembly testContributed to the release process, automating (> 25) factory preflight tests into a single Bash script
9/2023		Software Engineer <i>Platforms & Devices Product Area (PDPA)</i>
12/2019		Google Central Test Engineering <i>San Francisco Bay Area</i> <ul style="list-style-type: none">Factory audio software DRI for Nest Cam, Pixel Tablet, Pixel Buds Pro, Pixel Buds Pro 2Architected an ML system to make Nest and Pixel factory data more insightful and actionable<ul style="list-style-type: none">Pioneered 6 novel ML use-cases, across 7 programs, with accuracy up to 98.5%Example pipelines include clustering common failures from previous products, classifying said failures in future products, and using regression to produce new metrics or replace old onesHosted intern who built a data fusion of {"3D" Lidar + "2D" photos}, implementing feature matching via ML SuperGlue Network and OpenCV ORB, producing color depth-maps and interactive 3D reconstructions
12/2019		Software Engineer <i>Aviation</i>
7/2018		Garmin Safety & Datalink <i>Greater Kansas City Area</i> <ul style="list-style-type: none">Lead system testing effort to meet DO-178B compliance on GDL-60Implemented embedded software to synchronize configuration between two operating systems
7/2018		Software Engineering Intern <i>Aviation</i>
8/2017		Garmin Interfaces/Data Routing <i>Rolla, MO</i> <ul style="list-style-type: none">Implemented validation system for a highly-utilized aviation tool, resulting in 25% code reduction in affected classes
8/2017		Software Engineering Intern <i>Automotive OEM</i>
5/2017		Garmin <i>Greater Los Angeles Area</i> <ul style="list-style-type: none">Enhanced reliability (80% to 100% success rate) and execution time (5\times speed up) of automation suite by developing on-device APIs and consuming new, optimized APIs in test suite
		Team Lead & DRI Missouri S&T Satellite Team 4/2016–12/2017
		Undergraduate Teaching Assistant Computer Science Missouri S&T 8/2016–4/2017

ATTRIBUTES

tech	Languages Python, C++, C, Bash, SQL, \LaTeX <i>Previous</i> Swift, C#, Lua, Perl ML scikit-learn, TensorFlow, Colab, Google Cloud Platform (GCP) Tools Docker, Git, i3wm, Make, regex, tmux, Tmuxinator, Vim, Xcode & iOS toolchain, ZSH Python Cython, matplotlib, numpy, pandas, pdb, pyenv, SciPy, sphinx, tox, venv C++17 abseil, Boost, catch2, lldb, STL, valgrind
misc	7 projects, 15 ⁺ interviews, 1 intern, > 700 CLs, > 100 "tickets", 8 managers, 8 \times Google Peer Bonus, 3 \times Google Spot Bonus, Googler Thank You Campaign receipt, 1 st Place MegaMiner AI, Summa Cum Laude honors, 6 \times Deans List Award, 18 th /229 S&T competitive programmer

EDUCATION

12/2018		Bachelor of Science <i>Computer Science</i> Missouri University of Science and Technology <i>Rolla, MO</i> Coursework Artificial Intelligence, Evolutionary Computing, Data Mining, Object-Oriented Numerical Modeling, Analysis of Algorithms, Undergraduate Research, Differential Equations, Calculus, Linear Algebra, Statistics, Modern Physics
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