

# 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	<b>Software Engineer</b> <i>Research, <math>\Delta</math> Labs</i>
	<b>Google</b> Project Starline <i>San Francisco Bay Area</i> <ul style="list-style-type: none"><li>Designed the end-to-end factory software architecture, <b>adopted by Google and HP</b><ul style="list-style-type: none"><li>Aligning <b>25</b> cross-functional engineering managers, ICs, security council, and program management</li></ul></li><li>Brought up in-house upload server infrastructure, facilitating factory data access for Google and HP</li><li>Implemented the standard factory interface for Starline's OS, responsible for interfacing, testing, and calibrating<ul style="list-style-type: none"><li>Integrated six subsystems into said interface, including one audio functional test</li><li>Formulated Diagnostics framework, responsible for system health checking as a factory final-assembly test</li></ul></li><li>Contributed to the release process, automating (<math>&gt; 25</math>) factory preflight tests into a single Bash script</li></ul>
9/2023	<b>Software Engineer</b> <i>Platforms &amp; Devices Product Area (PDPA)</i>
12/2019	<b>Google</b> Central Test Engineering <i>San Francisco Bay Area</i> <ul style="list-style-type: none"><li>Factory audio software DRI for <b>Nest Cam, Pixel Tablet, Pixel Buds Pro</b></li><li>Architected an ML system to make Nest and Pixel factory data more insightful and actionable<ul style="list-style-type: none"><li>Pioneered <b>6</b> novel ML use-cases, across <b>7</b> programs, with accuracy up to <b>98.5%</b></li><li>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 ones</li></ul></li><li>Hosted 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</li></ul>
12/2019	<b>Software Engineer</b> <i>Aviation</i>
7/2018	<b>Garmin</b> Safety & Datalink <i>Greater Kansas City Area</i> <ul style="list-style-type: none"><li><b>Lead system testing effort</b> to meet DO-178B compliance on <b>GDL-60</b></li><li>Implemented embedded software to synchronize configuration between two operating systems</li></ul>
7/2018	<b>Software Engineering Intern</b> <i>Aviation</i>
8/2017	<b>Garmin</b> Interfaces/Data Routing <i>Rolla, MO</i> <ul style="list-style-type: none"><li>Implemented validation system for a highly-utilized aviation tool, resulting in <b>25% code reduction</b> in affected classes</li></ul>
8/2017	<b>Software Engineering Intern</b> <i>Automotive OEM</i>
5/2017	<b>Garmin</b> <i>Greater Los Angeles Area</i> <ul style="list-style-type: none"><li>Enhanced reliability (<b>80% to 100% success rate</b>) and execution time (<b>5<math>\times</math> speed up</b>) of automation suite by developing on-device APIs and consuming new, optimized APIs in test suite</li></ul>
	<b>Team Lead &amp; DRI Missouri S&amp;T Satellite Team</b> 4/2016–12/2017
	<b>Undergraduate Teaching Assistant</b> Computer Science <b>Missouri S&amp;T</b> 8/2016–4/2017

## ATTRIBUTES

tech	<b>Languages</b> Python, C++, C, Bash, SQL, $\LaTeX$ <i>Previous</i> Swift, C#, Lua, Perl <b>ML</b> scikit-learn, TensorFlow, Colab, Google Cloud Platform (GCP) <b>Tools</b> Docker, Git, i3wm, Make, regex, tmux, Tmuxinator, Vim, Xcode & iOS toolchain, ZSH <b>Python</b> Cython, matplotlib, numpy, pandas, pdb, pyenv, SciPy, sphinx, tox, venv <b>C++17</b> abseil, Boost, catch2, lldb, STL, valgrind
misc	7 projects, 15 <sup>+</sup> 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 <sup>st</sup> Place MegaMiner AI, Summa Cum Laude honors, 6 $\times$ Deans List Award, 18 <sup>th</sup> /229 S&T competitive programmer

## EDUCATION

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