

ILLYA STARIKOV

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

EXPERIENCE

- 9/2023 **Software Engineer Research,  Labs**
 **Google** Project Starline *San Francisco Bay Area*
- 9/2023 **Software Engineer Devices & Services Product Area (DSPA)**
12/2019 **Google** Central Test Engineering *San Francisco Bay Area*

 - Architected an ML system to make Nest and Pixel factory data more insightful and actionable
 - 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 ones
 - 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
 - Founded or co-founded efforts to scale software within entire organization: documentation overhaul (internal **350 new users/month**, **750 new sessions/month**), boost software testing (**hundreds of new test cases**), test station adoption org-common or team-common libraries (**code reduction up to 70%**)
 - Factory audio software DRI for Nest Cam, Pixel Tablet, Pixel Buds Pro
 - Saved \$120k in program capex** by optimizing Nest Cam (**52%**) and Pixel Tablet (**23%**) test time
- 12/2019 **Software Engineer Aviation**
7/2018 **Garmin** Safety & Datalink *Greater Kansas City Area*

 - Lead system testing effort** to meet DO-178B compliance on GDL-60
 - Implemented embedded software to synchronize configuration between two operating systems
- 7/2018 **Software Engineering Intern Aviation**
8/2017 **Garmin** Interfaces/Data Routing *Rolla, MO*


 - Implemented quality-of-life improvements for a highly-utilized aviation tool
 - Implemented validation system for said tool, resulting in **25% code reduction** in affected classes
- 8/2017 **Software Engineering Intern Automotive OEM**
5/2017 **Garmin** *Greater Los Angeles Area*

 - Brought-up and maintained automation suite to assess the performance of navigation routing
 - Enhanced reliability (**80% to 100% success rate**) and execution time (**5x 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

TECHNICAL

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

EDUCATION

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