



ILLYA STARIKOV

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ill-ya star-ee-cove | He/Him

Obsessing over focusing on improving the future of digital communication. *Striving to make an impact on the world.*


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 15 interviews, 1 intern, 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