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 (**5× 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, **7×** Google Peer Bonus, **3×** Google Spot Bonus, Googler Thank You Campaign receipient, **1st** Place MegaMiner AI, Summa Cum Laude honors, **6×** 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