




# İLLYA 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
  - 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
    - Nest Cam's test script was fastest within Google audio (by 36%) during entire tenure
- 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
    - Designed new test architecture, supported test infrastructure, and wrote test plans
  - 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,  $\text{\LaTeX}$   
*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++** boost, catch2, lldb, stdlib, STL, valgrind
- misc 15 interviews, 1 intern, 7× Google Peer Bonus, 3× Google Spot Bonus, Googler Thank You Campaign recipient, {Garmin new-hire, Google new-hire, Starline} Trivia Winner, 1<sup>st</sup> Place MegaMiner AI, Summa Cum Laude honors, 6× Deans List Award, 18<sup>th</sup>/229 Missouri S&T ACM SIG Competition ranking

## 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 I-III, Linear Algebra, Statistics