


# 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**  *Google Labs*  
**G** Google Project Starline San Francisco Bay Area
- 9/2023 **Software Engineer** *Manufacturing*  
12/2019 **G** 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 (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%)
  - Implemented initial factory data downloader (adopted by org, external teams), common audio test framework (entire team), and lead forums for knowledge sharing (team participation)
  - 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 (by ~ 36%) within Google audio 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
- ▲ *Software Engineering Intern Automotive OEM Garmin 5/2017-8/2017*  
*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,   
*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
- misc 15 interviews, 1 intern, 7× Google Peer Bonus, 2× 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*  
1/2015 **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