


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*
G | **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*
G |
 - 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, \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
- misc | 15 interviews, 1 intern, 7× Google Peer Bonus, 2× Google Spot Bonus, Googler Thank You Campaign receipt, {Garmin new-hire, Google new-hire, Starline} Trivia Winner, 1st Place MegaMiner AI, Summa Cum Laude honors, 6× Deans List Award, 18th/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