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*
G	**Google** Project Starline *San Francisco Bay Area (Mountain View)*

9/2023	**Software Engineer** *Devices & Services Product Area (DSPA)*
12/2019	**Google** Central Test Engineering *San Francisco Bay Area (Mountain View)*
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- ○ 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*
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- ○ **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*
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- ○ 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 receipient, {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*
◉ ◉	**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