

İLLYA STARIKOV

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📍 San Francisco Bay Area

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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%)
- 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 within Google audio (by 36%) during entire tenure
 - Nest Cam was Nest's first fully-remote program, from PROTO to MP

Garmin, 2¹/₂ y

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
- Lead a high-school focused engineering project to build and race a hovercraft, presented at Kansas State's ACM, guided children with Bring Your Child To Work Day projects, hosted tours

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

12/2017 **Team Lead & DRI Aerospace**

4/2016 **Missouri S&T Satellite Team** Stereoscopic Imaging Rolla, MO




- Lead 6 person team of undergraduate and graduate students to deliver nanosatellite payload: mid-flight, stereoscopic capture (via MR SAT) and 3D reconstruction of a paired satellite (MRS SAT)
- Wrote synchronous flight capture code across 2× cameras to run on-device (Raspberry Pi)
- Collaborated with chief engineer, program manager, and program subsystems to architect flight code
- Satellite is undergoing testing and reviews, scheduled for launch of Summer 2024

5/2017	Undergraduate Teaching Assistant <i>Computer Science</i>
8/2016	Missouri University of Science and Technology <i>Rolla, MO</i>
	<ul style="list-style-type: none"> ○ Taught programming concepts to freshman/sophomore-level students across 3× classes: Introduction To Programming (Class+Lab), Data Structures (Lab) ○ Created assignments, graded assignments, tests for class sizes upto 60 students ○ Automated grading with tools to detect plagrism, styleguide conformance, and course-specific rules
12/2014	Assistant <i>Employment Services</i>
9/2014	Jefferson College <i>Hillsboro, MO</i>
	Rehired 5/2015–8/2015, 5/2016–8/2016 <ul style="list-style-type: none"> ○ Created user manual to serve as a guide for all new employment services assistants ○ Maintained large student-employment databases via college's content management system ○ Designed posters, fliers, and newsletters for campus announcements
8/2014	Web Developer
5/2014	Freelance <i>De Soto, MO</i>
	<ul style="list-style-type: none"> ○ Supported 6 projects for various clients: creating websites, mockups, data mining, data entry ○ Specialized in Wordpress and Bootstrap frameworks, crafting sites to meet client's requirements
	Software Engineer Project Starline Google 9/2023–present
	Software Engineer Central Test Engineering Google 12/2019–9/2023
	Software Engineer Safety & Datalink Garmin 8/2017–6/2018
	Software Engineering Intern Interfaces/Data Routing Garmin 8/2017–6/2018
	Software Engineering Intern Automotive OEM Garmin 5/2017–8/2017
	Bachelor of Science Computer Science Missouri S&T 1/2015–12/2018
	Team Lead & DRI Missouri S&T Satellite Team 4/2016–12/2017
	Undergraduate Teaching Assistant Computer Science Missouri S&T 8/2016–4/2017
	Computer Lab Assistant Missouri S&T 1/2016–4/2017
	Employment Services Assistant Jefferson College 9/2014–12/2014, 5/2015–8/2015, 5/2016–8/2016
	Web Developer Freelance 5/2014–8/2014
	Computer Lab Assistant Missouri Valley College 9/2013–5/2014

TECHNICAL

tech	Languages Python, C++, C, BASH, SQL, \LaTeX <i>Previous</i> 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 receipient, {Garmin new-hire, Google new-hire, Starline} Trivia Winner, 1 st Place MegaMiner AI , Summa Cum Laude honors, 6× Deans List Award, 18 th /229 Missouri S&T ACM SIG Competition ranking

EDUCATION

12/2018	Bachelor of Science <i>Computer Science</i>
1/2015	Missouri University of Science and Technology <i>Rolla, MO</i>
	GPA 3.83/4.0; Major GPA 3.88/4.0; Summa Cum Laude Advisers Dr. Jennifer Leopold, Dr. A. Ricardo Morales, Dr. Simone Silvestri, Professor Clayton Price Associations Academy of Computing Machinery (ACM) [2/2016–5/2018], Missouri S&T Satellite Team (MSAT) [12/2017–5/2018], Institute of Electrical and Electronics Engineers (IEEE), [1/2016–5/2017] Coursework Artificial Intelligence, Evolutionary Computing, Data Mining, Object-Oriented Numerical Modeling, Analysis of Algorithms, Undergraduate Research, Differential Equations, Calculus I-III, Linear Algebra, Statistics, Discrete Mathematics, Modern Physics, Physics I-II, Chemistry, Micro Embedded Design
	Private Pilot Ground School 3/2019–5/2019
	Jefferson College 8/2014–12/2014 A+ <i>scholarship</i>
	Missouri Valley College 8/2013–5/2014 <i>Cross-Country/Track & Field scholarship</i>