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ill-ya star-y-kov | He/Him |  
 $\int_{2017} expertise$ (Data Science, Cloud, System Design) $dt = 7^+ \text{ YoE}$
Software Engineer applying AI & ML to build the future of digital communication. Pursuing opportunities to put a dent in the universe.


VOCATION

1/2025		Software Engineer Google Project Starline	Research,  Labs San Francisco Bay Area
<ul style="list-style-type: none">Owned internal camera hardware-in-the-loop test infrastructure/suite: enabled new tests, new hardware, executor platforms; fixed > 10 issues, triaged failures; achieved first suite pass in 105 days \in 1 month of start dateRe-architected camera software updater for better multi-peripheral support, adding support for a new peripheral			
9/2023		Software Engineer	Research,  Labs
1/2025		Google Project Starline	San Francisco Bay Area
<ul style="list-style-type: none">Designed the end-to-end factory software architecture, adopted by Google and HP<ul style="list-style-type: none">Aligned 25 cross-functional engineering managers, ICs, security council, and program managementBrought up in-house upload server infrastructure, facilitating factory data access for Google and HPImplemented the standard factory interface for Starline's OS, responsible for interfacing, testing, and calibrating<ul style="list-style-type: none">Integrated six subsystems into said interface, including one audio functional testFormulated Diagnostics framework, responsible for system health checking as a factory final-assembly testContributed to the release process, automating (> 25) factory preflight tests into a single Bash script			
9/2023		Software Engineer	Platforms & Devices Product Area (PDPA)
12/2019		Google Central Test Engineering	San Francisco Bay Area
<ul style="list-style-type: none">Factory audio software DRI for Nest Cam, Pixel Tablet, Pixel Buds Pro, and Pixel Buds Pro 2Architected an ML system to make Nest and Pixel factory data more insightful and actionable<ul style="list-style-type: none">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 onesHosted intern who built a data fusion of {"3D" Lidar + "2D" photos}, implementing feature matching via ML SuperGlue Network and OpenCV ORB, producing color depth-maps and interactive 3D reconstructions			
12/2019		Software Engineer	Aviation
7/2018		Garmin Safety & Datalink	Greater Kansas City Area
<ul style="list-style-type: none">Lead system testing effort to meet DO-178B compliance on GDL-60Implemented embedded software to synchronize configuration between two operating systems			
		Software Engineering Intern Interfaces/Data Routing Garmin	8/2017– 6/2018
		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

ATTRIBUTES

tech	Languages Python, C++, C, Bash, SQL, LaTeX Previous Swift, C#, Lua, Perl	     
	ML scikit-learn, TensorFlow, Colab, GCP Vertex AI	  
	Tools Docker, Git, i3wm, Make, regex, tmux, Tmuxinator, Vim, Xcode & iOS toolchain, ZSH	
	Python Cython, matplotlib, numpy, pandas, pdb, pyenv, SciPy, sphinx, tox, venv	
	C++17 abseil, Boost, catch2, lldb, STL, valgrind	
misc	8 projects, 15 ⁺ interviews, 1 intern, > 800 CLs, > 300 code reviews, > 100 "tickets", 9 managers, 8 \times Google Peer Bonus, 4 \times Google Spot Bonus, Googler Thank You Campaign receiptant, 1 st Place MegaMiner AI, Summa Cum Laude honors, 6 \times Dean's List Award, 18 th /229 S&T competitive programmer	

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, Linear Algebra, Statistics, Modern Physics			