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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 G	Software Engineer Research,  Labs Google Project Starline San Francisco Bay Area
9/2023 12/2019 G	Software Engineer Devices & Services Product Area (DSPA) Google Central Test Engineering San Francisco Bay Area <ul style="list-style-type: none">Architected 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 onesFounded 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<ul style="list-style-type: none">Saved \$120k in program capex by optimizing Nest Cam (52%) and Pixel Tablet (23%) test timeNest Cam's test script was fastest within Google audio (by 36%) during entire tenureNest Cam was Nest's first fully-remote program, from PROTO to MP
12/2019 7/2018 ▲	Software Engineer Aviation Garmin Safety & Datalink Greater Kansas City Area <ul style="list-style-type: none">Lead system testing effort to meet DO-178B compliance on GDL-60<ul style="list-style-type: none">Designed new test architecture, supported test infrastructure, and wrote test plansImplemented embedded software to synchronize configuration between two operating systemsLead 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 8/2017 ▲	Software Engineering Intern Aviation Garmin Interfaces/Data Routing Rolla, MO <ul style="list-style-type: none">Implemented quality-of-life improvements for a highly-utilized aviation toolImplemented validation system for said tool, resulting in 25% code reduction in affected classes
8/2017 5/2017 ▲	Software Engineering Intern Automotive OEM Garmin Greater Los Angeles Area <ul style="list-style-type: none">Brought-up and maintained automation suite to assess the performance of navigation routingEnhanced 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 4/2016 ST	Team Lead & DRI Aerospace Missouri S&T Satellite Team Stereoscopic Imaging Rolla, MO <ul style="list-style-type: none">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 codeSatellite 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 <i>A+ scholarship</i>
	Missouri Valley College 8/2013–5/2014 <i>Cross-Country/Track & Field scholarship</i>

5/2013	High School <i>diploma</i>
8/2009	De Soto Senior High <i>De Soto, MO</i>
	Associations Cross-Country (Class 3, 2× All-District individual [2011–2012], 1× All-District team [2012], #5 team state ranking [2012]), Track & Field, Future Business Leaders of America (FBLA)
5/2009	Elementary, Middle School <i>diploma</i>
8/2000	Sunrise R-IX School District <i>De Soto, MO</i>
	Associations Cross-Country, Basketball, Computer Club, Quiz Bowl, Chess Club, Yearbook Design Awards Presidential Fitness Award [x8, 2001-2009], School Speech Contest Winner