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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 <i>Research, 🏢 Labs</i>  Google Project Starline <i>San Francisco Bay Area</i>
9/2023	Software Engineer <i>Devices & Services Product Area (DSPA)</i>
12/2019	Google Central Test Engineering <i>San Francisco Bay Area</i> <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 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 reconstructionsFounded 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
Garmin, 21/2 y	
12/2019	Software Engineer <i>Aviation</i>
7/2018	Garmin Safety & Datalink <i>Greater Kansas City Area</i> <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	Software Engineering Intern <i>Aviation</i>
8/2017	Garmin Interfaces/Data Routing <i>Rolla, MO</i> <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	Software Engineering Intern <i>Automotive OEM</i>
5/2017	Garmin <i>Greater Los Angeles Area</i> <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	Team Lead & DRI <i>Aerospace</i>
4/2016	Missouri S&T Satellite Team Stereoscopic Imaging <i>Rolla, MO</i> <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 on 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>
	<i>Rehired</i> 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
	<i>Software Engineer</i> Project Starline Google 9/2023–present
	<i>Software Engineer</i> Central Test Engineering Google 12/2019–9/2023
	<i>Software Engineer</i> Safety & Datalink Garmin 8/2017–6/2018
	<i>Software Engineering Intern</i> Interfaces/Data Routing Garmin 8/2017–6/2018
	<i>Software Engineering Intern</i> Automotive OEM Garmin 5/2017–8/2017
	<i>Bachelor of Science</i> Computer Science Missouri S&T 1/2015–12/2018
	<i>Team Lead & DRI</i> Missouri S&T Satellite Team 4/2016–12/2017
	<i>Undergraduate Teaching Assistant</i> Computer Science Missouri S&T 8/2016–4/2017
	<i>Computer Lab Assistant</i> Missouri S&T 1/2016–4/2017
	<i>Employment Services Assistant</i> Jefferson College 9/2014–12/2014, 5/2015–8/2015, 5/2016–8/2016
	<i>Web Developer</i> Freelance 5/2014–8/2014
	<i>Computer Lab Assistant</i> Missouri Valley College 9/2013–5/2014

TECHNICAL

tech	Languages Python, C++, C, Bash, SQL, L ^A T _E X <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 Markup CSS, HTML, JSON, Markdown, reStructuredText, XML, YaML Python Cython, matplotlib, numpy, pandas, pdb, pyenv, SciPy, sphinx, tox, venv C++17 Boost, catch2, lldb, STL, valgrind
misc	15 interviews, 1 intern, 7× Google Peer Bonus, 3× Google Spot Bonus, Googler Thank You Campaign recipient, {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 <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, Linear Algebra, Statistics, Modern Physics, Physics, Discrete Mathematics, Web Design, Micro Embedded Design, Chemistry




Private Pilot Ground School 3/2019–5/2019

Jefferson College 8/2014–12/2014 *A+ scholarship*

Missouri Valley College 8/2013–5/2014 *Cross-Country/Track & Field scholarship*

5/2013 High School *diploma*

8/2009 **De Soto Senior High** *De Soto, MO*

 **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 *diploma*

8/2000 **Sunrise R-IX School District** *De Soto, MO*



Associations Cross-Country, Basketball, Computer Club, Quiz Bowl, Chess Club, Yearbook Design

Awards Presidential Fitness Award [x8, 2001–2009], School Speech Contest Winner