

# John Gillis

Staff Software Engineer

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**Education** May 2018

University of Missouri

B.S. in Computer Engineering

<b>Work Experience</b>	<b>Staff Software Engineer, Meta</b>	<b>Jun 2021 – Present</b>
	<ul style="list-style-type: none"><li>- Designed and built platform to sync 1M+ badge-in events per day with p99 latency under 1min across 400+ buildings using Hack, Python, Scribe, Async jobs, and persistent TW jobs</li><li>- Drove understanding, alignment and execution among 4 technical and 6 business operations teams on simplifying access request flows across 4 core tools saving \$2M annually</li><li>- Led the planning and execution of internal conference attended by 400 engineers with 10 events across 3 global timezones/rebroadcast schedules</li><li>- Unified incident response and review practices across a 700-engineer org through setting up work streams, recruiting local senior engineers, and executing changes globally</li></ul>	
	<b>Senior Software Engineer, Target Corporation</b>	<b>July 2018 – May 2021</b>
	<ul style="list-style-type: none"><li>- Optimized stateful API to handle 45k TPS with a p99 below 500ms while performing 176k TPS outgoing to internal integrations by studying its flame graphs and metrics to eliminate hotspots such as reflective validators and NAT servers bottlenecking requests</li><li>- Developed unified checkout platform to handle over \$92B/yr of in-store and online sales using Kotlin and Ratpack to create reactive microservices running on the edge and in the cloud</li><li>- Designed and implemented Cassandra Java driver code and Kubernetes operator scripts that automatically recover from corrupted states increasing reliability of the 1800+ edge clusters</li><li>- Mentored fellow engineers including facilitating over 60 technical presentations</li><li>- Built Cassandra-backed Spring Boot services for 90m member loyalty program to place balance holds and Storm topologies to process 8m fulfilled transactions per day from Kafka</li></ul>	
	<b>CTO and Co-Founder, Recordly, Inc.</b>	<b>Oct 2015 – July 2018</b>
	<ul style="list-style-type: none"><li>- Led development and fundraising for the mobile transcription app for journalists</li></ul>	
	<b>Researcher, VIMAN Lab, University of Missouri</b>	<b>Jun 2014 – Dec 2016</b>
	<ul style="list-style-type: none"><li>- Published 6 papers on post-disaster mobile cloud computing with over 75 citations</li></ul>	
<b>Skills</b>	Reactive Backend	Hack, Kotlin, Ratpack, Java, Spring Boot, Micronaut
	Database	Cassandra (NoSQL), PostgreSQL, Oracle Database (SQL)
	Infrastructure / DevOps	Kubernetes, Nomad, Terraform, Consul, HAProxy, Drone, GCP
	Data Processing	Python, Scala, Spark, Storm, HDFS, Avro, Kafka, Drools
	Web / Mobile	JavaScript, React, React Native, Swift (iOS), Java (Android)
<b>Volunteerism</b>	<b>Lead Robotics Mentor, FAIRmingos, FRC #5340</b>	<b>Nov 2019 – Jun 2021</b>
	<ul style="list-style-type: none"><li>- Directed team of 4 mentors guiding students to use STEM skills for FIRST Robotics</li></ul>	
<b>Awards</b>	Reliability Hero Nominee, one of 17 across company (Meta)	Nov 2023
	Remote Self-checkout, Patent Number: US11734664B2 (Target)	Aug 2023
	Executive Challenge Winner, "Safest Place to Shop" (Target)	July 2020
	Eagle Scout (Led robotics workshop for elementary school teachers)	Aug 2013