John Gillis
Senior Backend Software Engineer

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Education   May 2018
University of Missouri
B.S. in Computer Engineering

Work Experience	**Senior Software Engineer, Target Corporation**	**Apr 2020 – Present**

- Implemented Cassandra Java driver code and Kubernetes operator scripts that automatically recover from invalid states increasing reliability of these clusters in 1800+ edge data centers
- Design and execute multi-domain initiatives worked on by 18 engineers including turning complex food assistance program rules into atomic stories
- Interview and recruit early tech talent candidates from universities and bootcamps
- Mentor fellow engineers including facilitating over 60 technical presentations

Software Engineer, Target Corporation   **July 2018 – Apr 2020**

- 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
- Developed unified checkout platform to handle over $88B/yr of in-store and online sales by using Kotlin and Ratpack to create reactive microservices that are lightweight for constrained edge data centers and highly scalable for cloud deployments
- Built Cassandra-backed Spring Boot services for 75m member loyalty program to place balance holds and Storm topologies to process 8m fulfilled transactions per day from Kafka

VP of Software Development, MyCafeEdu, Inc.   **Mar 2013 – Present**

- Manage team of 4 building collaborative online CAD tools for the food service industry

CTO and Co-Founder, Recordly, Inc.   **Oct 2015 – July 2018**

- Led development and fundraising for the mobile transcription app for journalists

Researcher, VIMAN Lab, University of Missouri   **Jun 2014 – Dec 2016**

- Published 6 papers on post-disaster mobile cloud computing with over 75 citations

Skills		
	Reactive Backend	Kotlin, Ratpack, Java, Spring Boot, Micronaut
	Database	Cassandra (NoSQL), PostgreSQL, Oracle Database (SQL)
	Infrastructure / DevOps	Kubernetes, Nomad, Terraform, Consul, HAProxy, Drone, GCP
	Data Processing	Scala, Spark, Storm, HDFS, Avro, Kafka, Drools, Python
	Web / Mobile	JavaScript, React, Swift (iOS), Java (Android)

Volunteerism   **Lead Robotics Mentor, FAIRmingos, FRC #5340**   **Nov 2019 – Present**

- Direct a team of 4 mentors to instruct and guide students at The FAIR High School for Arts to learn and use STEM skills from programming to CAD for the FIRST Robotics Competition

Robotics Mentor, Army Ants, FRC #3792   **Aug 2014 – May 2018**

Awards		
	Executive Challenge Winner, "Safest Place to Shop" (Target)	July 2020
	Reynolds Journalism Institute Student Competition Winner (Recordly)	May 2016
	Mizzou Advantage Interdisciplinary Research Award (VIMAN Lab)	Apr 2016
	Eagle Scout (Led robotics workshop for elementary school teachers)	Aug 2013