

Tyler Herron

Software Engineer | Dallas, TX

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Experience

Software Engineer

Capital One

Aug. 2021 — present

- Developed suite of applications responsible for executing legally compliant and customer-focused communication strategies leveraging **Java**, **Spring Boot**, **Kafka**, **Drools**, and **AWS**.
- Modernized legacy architecture with **machine learning enabled** microservices—saving over **\$18 million** annually and reaching **thousands of additional customers** daily.
- Architected AWS-based distributed systems utilizing **EC2**, **Redis**, **Aurora**, **DynamoDB**, and **Lambda**.
- Established departmental testing architecture standards to utilize modern **JUnit 5** and **Cucumber** functionality, reducing pipeline regression testing time by over **75%**.

Software Engineer

USAA

Jun. 2019 — Aug. 2021

- Engineered reactive microservices capable of **30 million digital message deliveries per hour**—a **5,000%** increase over to the legacy system's capacity.
- Trailblazed development of reactive applications within USAA—building applications with the **Lagom** microservice framework, **Play** web framework, **Akka** actor toolkit, and a **NoSQL**-based event store model.
- Developed an internal full-stack admin dashboard combining a **Spring Boot** backend with a **React Redux** frontend to streamline system monitoring and incident resolution for enterprise support staff.
- Built a robust and customizable performance testing API to monitor and validate total system throughput leveraging **Taurus**, **Docker**, and **Kubernetes**.
- Led development on several automated batch jobs utilizing **Spring Batch**, **Kubernetes**, **Control-M**, and **CI/CD tooling** to replace legacy functionality and automate lengthy triage processes.

Software Engineering Intern

May. 2018 — Aug. 2018

Programming Mentor

Trinity University ITS

Jan. 2018 — May. 2019

- Led a program to develop work-study jobs comprising self-led programming education and innovation.
- Curated **Python**, **Swift**, and **JavaScript** programs and grew the team to more than a **dozen** students.
- Built a set of web scraping utilities to serve as examples for the **Python** learning track.

Education

Trinity University

Bachelor of Arts in **Computer Science** and **Philosophy**; focus in **New Media**.

May 2019

GPA: 3.7

Skills

Languages

Java, SQL, Python, Scala, Javascript, Bash

Technologies

Spring Boot, Kafka, AWS, Lagom, Akka, React, JUnit

Certifications

AWS Certified Solutions Architect, Associate

Apr. 2022