Tyler Herron

Software Engineer | Dallas, TX

Experience _

Software Engineer Capital One

Dallas, TX

Aug. 2021 — present

- Developed suite of applications responsible for executing complex legally compliant and customer focused strategic communication strategies leveraging Java, Spring Boot, Kafka, Drools, and AWS.
- Modernized legacy architecture with machine learning enabled decisioning logic—reducing mainfraime dependency, saving over \$18 million annually, and reaching thousands of additional customers daily.
- Architected new AWS-based distributed systems utilizing EC2, Redis, Aurora, DynamoDB, and Lambda.
- Collaborated across teams to onboard new customer populations, documenting processes to support self-service and enable personalized communication strategies for a **quarter million customers**.
- Established testing architecture standards to utilize of parallel features in contemporary unit and functional testing frameworks, reducing CI/CD pipeline testing time by over **75**%.
- Embedded with product stakeholders to improve **Splunk** logging and dashboards, then developed **Python** and **Bash** scripts to perform complex regression validations over **millions** of daily data points.

Software Engineer

USAA

San Antonio, TX

Jun. 2019 — Aug. 2021

- Built and deployed over two dozen reactive microservices responsible for digital communication capable of **30 million message deliveries per hour**—over a **5,000**% increase in volume over the legacy system.
- Trailblazed development of reactive applications within USAA—building applications utilizing the Lagom
 microservice framework, Akka actor toolkit, Play web framework, 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.
- Architected and engineered 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 Boot**, **Kubernetes**, **Control-M**, and **CI/ CD** to replace legacy functionality and automate manual hour-long triage processes.

Software Engineering Intern

San Antonio, TX

May. 2018 — Aug. 2018

San Antonio, TX

Jan. 2018 — May. 2019

- Programming Mentor Trinity University ITS
- 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.

Skills

Languages

Technologies

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

Certifications

AWS Certified Solutions Architect, Associate

Java, SQL, Python, Scala, Javascript, Bash

Apr. 2022

Education _

Trinity University

San Antonio, TX

May 2019

- Bachelor of Arts in Computer Science and Philosophy; focus in New Media. GPA: 3.7
- Recipient of merit-based **Murchison Scholarship** and competitive **Tower Scholarship**.