Tyler Herron

Software Engineer | Dallas, TX

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Experience

Sr. Associate Software Engineer   Capital One

Dallas, TX
Aug. 2021 — present

- Owned and developed component responsible for executing hundreds of business logic rules responsible determining customer contact eligibility utilizing modern **Java**, **Spring Boot**, **Kafka**, and **AWS**.
- Improved deployment and execution speed over previous system by 300% in addition to drastically simplifying the process for engineering new communication campaigns for millions of auto loan customers.
- Embedded with product-side partners to improve **Splunk** application logging, then used **Python** and **Bash** scripting to perform complex validations over hundreds of thousands of daily data points.

Software Engineer III   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.
- 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 test, monitor, and validate total system throughput leveraging **Lagom**, **Akka**, **Taurus**, **Docker**, and **shell scripting**.
- 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 Engineer, Intern

San Antonio, TX
May. 2018 — Aug. 2018

Programming Mentor   Trinity University ITS

San Antonio, TX
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.

Projects

therron.me	The latest iteration of my personal blog-aware portfolio site	**Javascript, React, Hugo, Netlify, GitHub CI/CD, HTML, Sass**	*Apr. 2021*
Cosmiculture	A turn-based 4X-lite game about gardening and finding zen in the cosmos, utilizing in-house sprites, and assets	**Unity, C#**	*Mar. 2019*

Skills

Languages

Java, Scala, Haskell, Python, Javascript, Bash

Frameworks

Spring Boot, Spring WebFlux, Lagom, Akka

Certifications

AWS Certified Solutions Architect, *Associate*   *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**.