Flynn Reiter

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PROFESSIONAL SUMMARY

Software Engineer specializing in **high-throughput distributed systems** and **real-time backend platforms**. Skilled in **Python**, **Kafka**, and **AWS/Kubernetes**, with experience designing **low-latency APIs**, scaling event-driven architectures, and improving **reliability and fault tolerance** in production systems. Passionate about building **resilient** code that power large-scale consumer products.

WORK EXPERIENCE

Starbucks   May 2022 – Present

Software Engineer I | July 2023 - Present   *Seattle, WA - Remote*

• Designed and scaled 13 backend microservices (**Python, Kotlin, Scala**), running ~82 pods in production on AWS with Kubernetes, supporting **millions** of daily transactions
• Built and optimized APIs and internal tools with **FastAPI** and **GraphQL**, ensuring high performance and fault tolerance.
• Developed event-driven flows using **Kafka** and **AWS Lambda**, handling async data processing for large-scale systems.
• Optimized **Redis** and **DynamoDB** usage to support low-latency and scalable data access, while phasing out **Cassandra**.
• Managed service observability with **Datadog**, creating metrics, dashboards, and alerts to monitor system health and **SLA/SLO** adherence.
• **Mentored** new team members by providing system deep-dives, on-call shadowing, and real-time support across services.
• Developed complex libraries in Kotlin for **edge server** architecture and API services, supporting async flows via AWS Lambda and Kafka.
• Architected a **chaos engineered reverse proxy** for service boundary management, allowed controlled fault injection (latency, errors), and mock responses for external dependencies.
• Improved **auto scaling** of pods by reducing startup time, through configuration of pod liveness, readiness, and startup probes.
• Automated **CI/CD** pipeline with **AWS CodeBuild** and **ArgoCD** to test functionality and performance under load on merging to main.

Software Engineer Intern | May 2022 - June 2023   *Scottsdale, AZ*

• Exposed new FastAPI framework for existing test services, allowing developers to run integration tests before merging to main branch.
• Created Datadog dashboard, with custom metrics, visualizing real-time carbon emissions per service, derived from AWS resources.
• Calculated team's AWS cloud carbon emissions utilizing Etsy's Cloud Jewels conversion factors, representing results in Datadog.

Rogue Media   Aug 2022 – Apr 2023

Software Developer Intern   *Tempe, AZ*

• Developed a social media app utilizing the Flutter framework, Dart language, Firebase database, and Google AdMob.
• Integrated Firebase Authentication and Firestore for secure user sessions and real-time data updates.

PROJECTS

Life Insurance with Destiny Website

▪ Designed frontend of live life insurance website - found at https://shannon-insurance.com/

EDUCATION

Arizona State University   Jan 2020 - May 2023

Bachelor's of Science, Software Engineering   *Tempe, AZ*

▪ **GPA: 3.5/4.0**; Dean's List

SKILLS & INTERESTS

▪ **Skills:** Python (FastAPI, Pytest), Kafka, AWS (Lambda, CodeBuild), Kubernetes, Helm, Docker, Redis, DynamoDB, GitHub, CI/CD, Datadog, Kotlin, Java, Scala, Gradle, RESTful APIs, ArgoCD, Distributed Systems
▪ **Interests:** Sustainability; International Travel; Kayaking; The Phoenix Suns; Cooking; Hiking; Acro Yoga; Beach Volleyball