

CHANDLER KLEIN

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SUMMARY

Backend software engineer with 5+ years building event-driven distributed systems in Java and Spring Boot. At FedEx, builds the systems that track package state and custody across 15,000+ last-mile access points and feed driver pickup decisions, running on devices at retail locations nationwide, many rural and low-bandwidth. Takes work from loosely defined operational problems through architecture, deployment, and production support.

TECHNICAL SKILLS

Languages: Java, Kotlin, TypeScript, Python, Go (personal projects)

Backend & Distributed Systems: Spring Boot, microservices, REST APIs, event-driven architecture, state machines, Java concurrency, TIBCO EMS, JMS, Spring Cloud Stream, Spring Batch

Cloud & Delivery: Azure, AKS/Kubernetes, Helm, GitHub Actions CI/CD

Other: Angular PWAs, Azure AI Search, RAG

EXPERIENCE

FedEx | Full Stack Developer Advisor | Remote | March 2022 – Present

FedEx OnSite is a network of 15,000+ retail access points (Walgreens, Dollar General, and others) where customers drop off and pick up packages, reducing load on FedEx's core delivery network.

- Owned the zero-package notification feature, which signals when an access point has no packages so drivers skip unnecessary pickup stops. Re-engineered message throughput with Java concurrency after the system couldn't send notifications fast enough, saving \$2M+ annually in fuel and operating costs.
- Extend package-lifecycle tracking across the OnSite network by adding scan events (drop-off, movement, pickup, delivery) to FedEx's overall package system, giving real-time visibility into where each package is waiting and its current state.
- Architected, built, and own end to end a standalone package-event pipeline that ingests millions of events daily through TIBCO EMS. Designed a state machine that detects incomplete package records and reconciles them against batch data so every package is fully accounted for and retailers are paid accurately.
- Built scan-integrity detection that uses package metadata and Haversine distance calculations to flag scans from implausible locations, preventing millions of dollars in annual package theft.
- Deliver the scanning applications used by staff at 15,000+ locations across the U.S. and Canada, many in rural areas with limited bandwidth. Led consolidation of three legacy native mobile apps into one Angular PWA, eliminating more than 80% of native code.
- Own production Spring microservices spanning authentication, inventory, payments, and claims. Built GitHub Actions CI/CD pipelines and deploy with Helm to Azure Kubernetes Service.

- Built an Azure AI Search RAG chat feature for a regional OnSite rollout as part of an internal AI group.
- Partner directly with operations, business, and product stakeholders to turn loosely defined operational problems into production systems. Guide architecture, trade-off, and scalability decisions and pair with other developers.

Shelter Insurance Companies | Software Engineer | Remote | April 2021 – March 2022

- Modernized JMS-based event processing by introducing Spring Cloud Stream.
- Built and deployed high-volume daily accounts-payable workflows with Spring Batch.
- Developed Java and Kotlin REST services supporting customer claims workflows.

EDUCATION

Georgia Institute of Technology | M.S. Computer Science, Artificial Intelligence Specialization
Western Michigan University | B.S. Computer Science

ADDITIONAL

Eagle Scout Award