

Joel D. Holmes

Senior Software Engineer – APIs & Distributed Systems

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SUMMARY

Senior backend engineer with 10+ years of experience designing and operating distributed systems and partner-facing APIs. Expert in building scalable, compliant systems for transaction processing, auditing, and external integrations. Strong focus on reliability, observability, and cross-functional collaboration.

CORE SKILLS

API Design • Distributed Systems • Microservices • AWS • Kubernetes • Go • Python • Kafka • Postgres • Compliance & Auditing • Observability • System Design

EXPERIENCE

Senior Software Engineer, EasyPost (PC Postage Team) (2025–Present)

- Develop APIs and services for postage transactions, label generation, and USPS compliance workflows
- Ensure auditability and correctness of financial transactions in distributed systems
- Lead migration to containerized infrastructure and Kubernetes adoption
- Apply 12-factor principles to improve reliability, observability, and scalability

Senior Software Engineer, Regrow (2023–2025)

- Built event-driven APIs (Kafka, CQRS) for auditable carbon credit systems
- Led Kubernetes migration improving deployment consistency and system visibility

Senior Software Engineer, Thoro.ai (2021–2023)

- Designed APIs for global fleet platform with real-time device communication
- Collaborated with international partners and mentored engineers

Senior Engineer, Earlier Roles (Carnegie Robotics, Edge Case, Wombat, PNC) (2011–2021)

- Built distributed systems, REST APIs, and microservices across AWS environments
- Migrated monoliths to microservices and introduced containerization

EDUCATION

B.S. Computer Science, University of Pittsburgh

PUBLICATIONS

Shipping Go (Manning, 2023) • Refactoring to Rust (Manning, 2024) • Go in Action (upcoming)