



HANNAH BIRKHOLZ

Software Engineering

CONTACT INFORMATION



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EDUCATION

B.S. in Computer Science, University of Minnesota - Twin Cities, 2016

AWS Certified Solutions Architect - Associate, 2022

KEY SKILLS

- Kotlin, Java, Python, Go
- Distributed systems design and event-driven architecture
- Kafka, RabbitMQ, gRPC
- PostgreSQL, DynamoDB, Redis
- AWS (EKS, Lambda, RDS, S3)
- Kubernetes, Docker, Terraform
- CI/CD with GitHub Actions and ArgoCD
- Observability with Datadog, Prometheus, and OpenTelemetry
- Service-level objectives and incident response
- Technical design documentation and architecture review
- Mentorship and engineer coaching
- HIPAA and PCI-DSS compliance practices

ABOUT ME

Senior software engineer with 9 years across fintech and healthcare. I own services end-to-end, mentor mid-level engineers, and tend to be the person who finally writes the design doc nobody else wanted to start.

PROFESSIONAL EXPERIENCE

Senior Software Engineer I 2021 - Present

Stellaview Health, Minneapolis, MN

- Led a 4-engineer team rewriting the patient-scheduling service in Kotlin, which absorbed a 3.2x traffic increase during the 2023 open-enrollment window without paging.
- Designed the event schema for clinical messaging used by 11 downstream teams, replacing four ad-hoc Kafka topics.
- Cut the on-call page count from about 30 a month to 9 by rewriting noisy alerts and adding circuit breakers around the EHR integration.
- Run a weekly architecture review and coach two mid-level engineers, one of whom was promoted this cycle.
- Wrote the team's testing guide that's now used during onboarding across the platform org.

Software Engineer I 2018 - 2021

Cedarbrook Capital, Minneapolis, MN

- Built the trade-reconciliation pipeline in Python and Airflow, processing roughly \$480M in daily volume.
- Replaced a brittle nightly cron with an event-driven workflow, cutting end-of-day close time by 70 minutes.
- Caught a rounding bug in the FX conversion library that had been under-reporting fees by a few cents per trade.
- Mentored two interns; both were converted to full-time offers.

Software Engineer I 2016 - 2018

Halberd Mobile, Saint Paul, MN

- Wrote Android features for a transit ticketing app with 240K MAU at the time.
- Reduced cold-start time by 38% through lazy-loading the route catalog.
- Built the in-app feedback widget that turned into the team's main bug-report channel.