Dan Corin

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WORK EXPERIENCE

Senior Software Engineer (L6)   2022 – present
Square — *Remote (New York, NY, San Francisco, CA)*
- Migrated primary risk asynchronous consumer service (1,000s of RPS) from self-hosted infra to AWS, ensuring availability and reliability throughout.
- Migrated payment multifactor authentication flow (3-DS) from legacy microservices to platform services, ensuring behavioral and performance parity with no impact to customers. Eliminated race condition, which negatively effected 100s of sellers per week. Eliminated unneeded database, asynchronous queue and RPC endpoint to simplify the implementation. Collaborated with stakeholders from several partner teams and made contributions to their codebases to ensure a successful migration (Java, gRPC, Protobuf, Kafka).
- Migrated system monitors and dashboards for 4 services from SignalFx to Datadog, ensuring behavior parity and data quality. Authored reusable Terraform modules to facilitate other teams' migration efforts.

Senior Software Engineer 2   2020 – 2022
Chime — *Remote (San Francisco, CA)*
- Coordinated and lead company-wide, weekly engineering architecture review, regularly attended by 50+ engineers
- Led cross-team effort to align on platform-centric architectural approach for three support engineering teams
- Shipped interactive voice response (IVR) system with Twilio Studio and Dialogflow CX, allowing members to speak conversationally to the IVR system, serving 1,000s of phone calls per day
- Spearheaded initiative to reduce chatbot response latency by 50%
- Designed and implemented scalable architecture for onboarding new data query and action use cases for chatbot and other member support systems, supporting 30+ use cases and increasing monthly (Rails, SNS/SQS)
- Consolidated system monitors and dashboards to improve observability and monitoring to reduce time-to-detection during outages from several hours to less than 15 minutes (Datadog)

Senior Software Engineer   2016 – 2020
Uber — *San Francisco, CA*
- Repurposed existing Jump backend to serve "third-party micromobility aggregator" use case in under two months, delivering ahead of schedule on a highly aggressive go-to-market timeline
- Implemented consumer bike and scooter search endpoints, serving more than 10,000 queries per second
- Architected and built system for over-the-air IOT vehicle firmware upgrades for 10,000s of vehicles in parallel (Go, Cadence, RabbitMQ)
- Defined and implemented schema for configuration of new micromobility products throughout Uber used by eight downstream consuming teams (40+ stakeholders)
- Authored extensive unit and integration tests within microservice architecture to ensure safe deployments, uncovering multiple incompatible changes per week
- Developed payments integration to support cash pre-payments for 100,000s of drivers in Brazil (Python, Celery)
- Led integration effort between Uber and third party systems to bring the business up to date with best practices in the financial technology industry (Go, Thrift, ActiveMQ)
- Wrote microservices to manage more than 40,000 leased vehicles (MySQL, Python, FastAPI, Flask, Celery, Redis, S3)

R&D Software Engineer   2014 – 2016
Accenture — *San Francisco, CA*
- Developed APIs and UI for a demonstrating integrating edge sensors and cameras with internal cloud analytics platform (Kinesis, Spark, Flask, MongoDB, React, Docker)

SKILLS

- **Languages**: Python, Java, Go, TypeScript, Ruby
- **Frameworks**: React, Next.js (Frontend); Rails, Flask, Guice, Fx (Backend)
- **Data Stores**: DynamoDB, Cassandra, PostgreSQL, MySQL, Redis, S3
- **Distributed Computing**: Kafka, SQS, Temporal, Celery, Sidekiq
- **DevOps**: Docker (Containerization), Terraform (Infrastructure as Code)
- **Monitoring**: Datadog (APM)
- **Other**: Language Models (OpenAI, Anthropic)

EDUCATION

Washington University in St. Louis — St. Louis, MO
B.A. in Physics and Computer Science — College Honors