

Alex Morgan

Senior Software Engineer — Distributed Systems & Developer Tooling

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Summary

Full-stack engineer with 6+ years building reliable backend services and developer-facing tools. Comfortable across the stack, with a particular focus on TypeScript, Postgres, and event-driven architectures. Strong bias for shipping incrementally and instrumenting everything.

Experience

Senior Software Engineer, TechCorp – Berlin, Germany Mar 2023 – present

Lead engineer on the platform team responsible for the public API and developer SDKs.

- Owned the migration of the public API from REST to a typed RPC layer, cutting average client integration time from two weeks to four days.
- Designed and shipped a queue-routing layer that absorbs 4x burst traffic without backpressure, using Redis Streams and a consumer-group rebalance protocol.
- Mentored four engineers through their first production deploys; introduced staged rollout playbook now used across the org.

Software Engineer, Linear Studio – Remote Jan 2021 – Feb 2023

Early backend hire on a B2B SaaS startup; built core billing, auth and webhook subsystems.

- Implemented the metered billing engine handling EUR 1.2M ARR with sub-second invoice generation across 8K customers.
- Built the webhook delivery service with at-least-once semantics, retries, and dead-letter queues; reliability went from 96% to 99.9%.
- Owned the move from a monolith to four modular services without downtime.

Junior Software Engineer, Nova Studio – London, UK Aug 2019 – Dec 2020

First engineering role at a digital product agency working with regulated-industry clients.

- Shipped six client projects across fintech and healthtech, all on schedule and within budget.
- Built reusable React component library that cut onboarding time for new client projects by approximately 30%.

Education

TU Berlin, MSc in Computer Science Sept 2017 – July 2019

- Thesis: Adaptive backpressure in event-driven microservices (1.3)

University of Manchester, BSc in Computer Science Sept 2014 – June 2017

Skills

Languages: TypeScript, Python, Go, Rust (learning)

Backend: Node.js, FastAPI, Postgres, Redis, RabbitMQ, gRPC

Frontend: React, Next.js, Tailwind CSS, Radix UI

Infrastructure: Docker, Kubernetes (light), AWS (Lambda, RDS, S3), GitHub Actions

Practices: Test-driven development, Trunk-based development, Observability (OpenTelemetry, Grafana)

Projects

typed-rpc

Open-source TypeScript RPC framework with end-to-end type safety; 1.4K GitHub stars.

- Designed the protocol so that contracts compile away at runtime — zero schema validation cost on the hot path.

queue-router

Reference implementation of the burst-absorbing queue layer used in production at TechCorp.

Languages

English: Native

German: Conversational (B1)