

Alex Morgan

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Education

University of California, Berkeley

B.S. Computer Science

Berkeley, CA

Aug 2018 – May 2022

Experience

Stripe

Software Engineer

San Francisco, CA

June 2022 – Present

- Designed and implemented a real-time fraud detection pipeline processing 50M+ transactions daily using Kafka and Flink, reducing false positives by 35%
- Built internal developer tools for API versioning that reduced breaking-change incidents by 60% across 200+ microservices
- Led migration of legacy payment processing module from Ruby to Go, improving throughput by 4x and reducing P99 latency from 800ms to 120ms

Figma

Software Engineering Intern

San Francisco, CA

May 2021 – Aug 2021

- Implemented collaborative cursor presence system using CRDTs, enabling real-time multi-user editing with sub-100ms sync
- Optimized WebSocket connection pooling, reducing server memory usage by 40% under peak load

Projects

CloudSync | *Rust, gRPC, PostgreSQL, Docker*

Jan 2024 – Present

- Built a distributed file synchronization engine supporting conflict-free merges across 10+ concurrent clients
- Implemented delta-sync algorithm reducing bandwidth usage by 85% compared to full-file transfers

DevDash | *TypeScript, React, D3.js, Node.js*

Sep 2023 – Dec 2023

- Created a developer productivity dashboard aggregating data from GitHub, Jira, and CI/CD pipelines
- Designed interactive visualization components rendering 100K+ data points with sub-60ms frame times

Skills

Languages: Go, Rust, TypeScript, Python, Java, SQL, Ruby

Technologies: Kafka, Flink, gRPC, PostgreSQL, Redis, Docker, Kubernetes, AWS

Frameworks: React, Next.js, Express.js, Tokio, Actix-web