

Boris Avrumov

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PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS)

Software Development Engineer II, Traffic Engineering

New York, NY

Jan 2025 – Present

- Designed high-throughput synchronization architecture (with API response caching, parallel processing, batch database writes) to balance consistency, throughput, and upstream TPS constraints, reducing backlog from ~48K pending updates to single digits
- Architected optimistic and distributed locking to eliminate race conditions between concurrent workflows, preventing invalid updates and excess API calls/database load
- Led delivery of native cross-region connectivity across 6 AWS regions, enabling deprecation of legacy networking workflows and reducing cross-team operational and technical debt.
- Built secure control-plane integrations by defining service APIs and IAM-based database access patterns, unblocking dependent teams while enforcing least-privilege access
- Implemented production-grade observability and automated canaries (latency/availability alarms, scheduled connectivity validation) to prevent silent failures in critical network paths
- Extended and contributed to externally owned codebases to support new cross-region and endpoint models, navigating ambiguous ownership boundaries through proactive design alignment.
- Authored architectural design documents evaluating concurrency models, queue-based processing, and consistency tradeoffs to guide long-term service evolution.

StubHub

New York, NY

Software Development Engineer II, FinTech

Feb 2024 – Jan 2025

- Designed and owned automated financial journal systems across multiple subsidiaries, eliminating manual month-end workflows and reducing close time by several days.
- Architected SQL- and ETL-driven reconciliation pipelines integrating external payment providers, ensuring correctness across daily ingestion and monthly close.
- Built exception-based monitoring and alerting to guarantee journal completeness and reconciliation accuracy before close, reducing operational risk.
- Delivered schema extensions and stored procedures supporting scalable intercompany reclassification workflows.

BlackRock

New York, NY

Associate (Software Engineer / Engineer III), ETFs and Trading

July 2019 – Feb 2024

- Contributed to a distributed ETF order management platform supporting creation and redemption across 300+ ETFs spanning equities, fixed income, and cryptocurrency products.
- Productionized a Java-based valuation service processing \$4B+ in daily order flow, integrating market prices, FX, and rate data with strict correctness requirements.
- Designed order lifecycle state machines and published Kafka events to downstream consumers in a microservices architecture
- Improved scalability and observability by driving parallel processing, role-based authorization, and telemetry.

MVI Systems

New York, NY

Full Stack Engineer

November 2018 – May 2019

- Built and enhanced full-stack features using React and Flask, improving validation, payload efficiency, and response times.
- Added unit and integration test coverage to ensure correctness across user workflows.

EDUCATION

Macaulay Honors College at Brooklyn College

August 2015 - May 2019

Bachelor of Science (B.S.) in Computer Science, Minor in Finance

GPA: 3.9

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Protobuf, Python, C++, SQL, Bash, HTML/CSS

Frameworks & Tools: Spring, Maven, Gradle, Mockito, NodeJS, Angular, React, Bootstrap, Git, Unix, IntelliJ

Infrastructure & Observability: gRPC, AWS, CloudWatch, CloudTrail, Kafka, Splunk, Grafana, AppDynamics

Soft Skills: Mentorship, Public Speaking, Financial Literacy, Leadership, Documentation, Diversity, Equity & Inclusion