

ROB SCHLEUSNER

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ABOUT

Engineer who pairs systems depth with data-driven analysis, turning large-scale technical measurement into decisions. Energized by latency-sensitive, data-intensive problems — instrumenting and analyzing network and market-data systems, running controlled experiments, and surfacing patterns in large time-series datasets that others miss.

Languages: Advanced – Python, Java, SQL; Intermediate – Rust, C++, C, JavaScript, Scala, HTML/CSS

Tools: Pandas, NumPy, SciPy, DuckDB, Jupyter, AWS, Redshift, SQLite, Redis, Docker, Git, PyTorch, TensorFlow

Concepts: Market microstructure, time-series analysis, probability, networking, optimization, quantitative analysis

PROFESSIONAL EXPERIENCE

AMAZON INC.

Austin, Texas

Software Engineer II / Supply and Resource Planning

10/2025 to Present

Software Engineer I / Supply and Resource Planning

02/2024 to 10/2025

Built optimization systems for large-scale driver procurement and scheduling, translating research into production planning models and tooling across North America and Europe.

- Led development of optimization system used by cross-functional planning teams, reducing runtime by 99% and enabling \$85M in annual savings across NA/EU operations.
- Partnered with operations and business stakeholders to launch a scalable onboarding framework, increasing planned weekly volume by 20%.
- Prototyped and evaluated new cost-modeling opportunity with research and business teams saving \$19M annually.

DOMINANT STRATEGIES

Austin, Texas

Software Engineer

08/2023 to 02/2024

Worked on the core protocol team for the sharded blockchain Quai. Built network observability tooling and drove a messaging protocol migration that significantly reduced peer-to-peer latency.

- Built Quai-Stats, a network observability platform that automated collection and visualization of live network metrics across roughly 300 nodes — throughput, block and consensus timing, and peer health.
- Reimplemented peer-to-peer messaging on the libp2p stack, measuring and reducing end-to-end network latency while improving message-delivery reliability across the sharded network.

NEURAFLASH

Atlanta, Georgia

Software Engineering Intern / AI & Einstein Solutions Team

05/2021 to 08/2021

Led development and assisted in the design of Getty Images' iStock Einstein Case and Sales Chatbot. Designed and built an internal website that teams use to create large JSON packages. Worked on call to maintain and troubleshoot live chatbots.

- Increased customer satisfaction by 30% on average through chatbot maintenance.
- Automated JSON package generation, saving the sales team roughly 2 hours per week.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

05/2025

Master of Science in Computer Science

GPA: 4.00

Specialization: Machine Learning

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Bachelor of Science in Computer Science, Highest Honors

05/2023

Specializations: Artificial Intelligence and People (UI)

GPA: 3.71

Minor: Computing & Business through the Denning Technology & Management Program

PROJECTS

Prediction Market Execution & Analytics Platform

02/2026 to Present

Independent research and trading effort on prediction markets (Kalshi, Polymarket) — full stack from ingestion and signal research through live execution and monitoring.

- Ingested and queried 130M+ Kalshi trades with DuckDB to study market calibration; surfaced systematic mispricings by category, volume, and time-to-close.
- Ran lead-lag analyses across NBA, EPL, and MLB markets, joining live game feeds (Statcast) with market prices to identify exploitable reaction latency.
- Built a Rust execution engine consuming real-time market data over REST/WebSocket for live order entry with risk controls and end-to-end latency instrumentation, plus a dashboard for discovery, order-book, and post-trade analysis.

Algorithmic Strategy Learner and Market Simulator

03/2025 to 05/2025

Built and evaluated a Q-Learner and a bagged-tree strategy using technical indicators (CCI, BBP, RSI, golden cross) to generate trades with position limits and compare against a manual indicator strategy.

- Implemented a market simulator with commission/impact to compare strategies under realistic trading frictions.
- In-sample, the bagged-tree strategy performed best; out-of-sample, the Q-Learner generalized better.

Multilingual: Spanish (conversational), and English (native)