

ERIC HENSCHHEL

• (954) 380-2837 • eric.henschel7@gmail.com • linkedin.com/in/erichenschel95

SKILLS

- **Programming:** Python, SQL, TypeScript/JavaScript, Java, R
- **Data & Databases:** Kafka, Snowflake, PostgreSQL, Redis, MongoDB, MySQL
- **Cloud & DevOps:** AWS (Lambda, ECS, S3, DynamoDB, CloudFormation), Docker, GitHub Actions, GitLab CI/CD
- **ML:** PyTorch, TensorFlow, scikit-learn
- **AI Tooling:** Claude Code, Codex, Cursor (agentic development workflows)

EXPERIENCE

GreenRoom Technologies Inc.

New York, NY (Remote)

Founding Engineer (Python, TypeScript, AWS, PostgreSQL)

Nov 2025 – Present

- Led design and launch of **V1** music-industry networking platform with paid video meetings on **AWS serverless: 137 paid consultations, 130+ users; Stripe Connect** escrow; **Daily.co** DAW-grade music mode (256kbps stereo).
- Re-architected **GreenRoom V2** into a Postgres graph analytics platform: four layers (entity, relationship, momentum, intent) on **49 tables (80+ migrations); Anthropic** graph-grounded chat (Claude tool-use over SQL, SSE).
- Built **V1→V2 migration pipeline (DynamoDB→Postgres ETL + Firebase** auth bridge) to onboard **130+ legacy accounts** with prepopulated profiles and preserved **137 meetings** of booking history.

QuantMechanix

New York, NY (Remote)

Founding Engineer (Python, FastAPI, PostgreSQL)

Nov 2025 – Present

- Engineered a **3-tier daily trading pipeline (500→30→10 symbols/day): PostgreSQL** resumable checkpoints, **Redis** rate limiting, scheduled **Schwab** pre-market ingestion.
- Integrated a **13-model quant ensemble** (e.g., Heston, Hawkes, GARCH) into **FastAPI** with multi-horizon prediction logging and automated **EOD outcome settlement** to calibrate per-model IC score-cards.
- Shipped a **React/TypeScript** command center (**7-step morning / 5-step evening** workflows) with convergence ranking and a blocking **9-point pre-trade gate** (server-stamped PASS/FAIL) before execution.

Assured Guaranty

New York, NY

Data Engineer (Python, SQL, Snowflake, AWS)

May 2024 – Nov 2025

- Reduced new data-source onboarding time by **85%** with a self-service **Snowflake** framework (schema creation, access controls, ingestion templates).
- Engineered a distributed model calibration system using **Python, Kafka, and AWS ECS**, reducing **grid search** over a 100M+ parameter space from days and weeks (local execution) to **2 hours**.
- Built **ETL pipelines** unifying Moody's credit ratings, ICE/Bloomberg bond pricing, and Refinitiv **MMD municipal yield curves** into datasets for **firm-wide credit risk reporting and modeling**.

Bloomberg LP — Data Technologies

New York, NY

Software Engineer (Python, SQL, AWS)

Jul 2021 – Feb 2024

- Engineered **Kafka migration** for **6,500+ companies'** ESG data, cutting query latency **45%** for quantitative research workflows.
- Architected **FDIC Y-9 ETL** parsing bank filings into normalized ratios for **Terminal** credit analysis.

- Led **global financial data ingestion** for the **Bloomberg Terminal** (acquisition, processing, storage) serving thousands of clients.

Intelligent Automation, Inc.

Rockville, MD

Software Engineer — Data Science (Python, Groovy)

Jun 2020 – Jul 2021

- Redesigned a legacy machine learning weather forecasting model using **Keras** to predict wind speeds for autonomous drone flight systems, improving prediction accuracy by **26%**.
- Built **unsupervised ML** clustering to detect social bot networks; deployed with **Docker** and **GitLab CI/CD**.

IIOT-OXYS Inc.

Cambridge, MA

Machine Learning Engineer (Python, SQL)

Dec 2019 – Jun 2020

- Built **time-series ETL** over **1M+** **PostgreSQL/AWS** traffic-sensor records with smoothing and spectral decomposition for signal isolation.
- Developed **autoencoder-based anomaly detection** on streaming sensor data (reconstruction error + latent-space distance thresholds).

EDUCATION

Wentworth Institute of Technology

Boston, MA

B.S. Applied Mathematics

Dec 2019