Joel Schwarzmann

Product & Engineering Leadership | Data Platforms | Developer Tooling

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Builder of developer tooling and data / AI platforms. Combines hands-on engineering with product leadership to deliver secure, interoperable systems. Skilled at translating complex technical concepts for diverse audiences. Passionate about creating platforms and products users love.

Experience

Director of Platform   *2024-09-01 - 2025-08-31*

Aneira Health

Leading development of a GCP-native data platform providing women with personalised, clinically validated healthcare insights that directly improve patient outcomes. Simultaneously building a world-class multimodal research platform integrating de-identified EHR, genomics, DICOM, and wearable data.

- Delivered a production grade data platform integrating EHR, genomics, and wearable data streams.
- Established FHIR-compliant architecture with interoperability as a core feature, including an MCP layer to enable secure LLM use cases (e.g., triage, coaching).
- Directed product discovery and initial development to expose the research platform to the first external pharmaceutical customer.
- Operated in a seed-stage context, spanning product, platform, and engineering execution.
- Position ended as the company was unable to secure follow-on funding in a difficult fundraising environment.

Technical Advisor   *2024-09-01 - Present*

Population Health Partners (incubator of Aneira Health)

Strategic and technical advisor across portfolio companies on data, ML, and AI platforms.

- Guided ML/AI capability development, engineering standards, and scalable data infrastructure across biotech, pharmaceutical, and healthcare portfolio companies.
- Led vendor assessments and selections (e.g., Vanta, Dagster, Linear, Miro, Posthog).

Principal Technical Product Manager   *2021-01-01 - 2024-08-31*

QuantumBlack Labs (a McKinsey company)

Product leader for developer tooling and durable ML delivery; stewarded open source and incubated multiple products end-to-end.

- Incubated an internal multi-tenant 'ML Models as a Service' platform from Aug 2023 to initial client deployments in 2024.
- Created Alloy, an internal build tool to compose Kedro projects from reusable building blocks; simplified packaging, CI/CD, and testing, driving organisation-wide adoption.
- Drove velocity on the open-source project Kedro (10.5k ★) first as a contributor and then as a product lead, leading efforts across product research, developer relations, and developing overall product toolkit. Stewarded Kedro through the Linux Foundation for AI & Data from incubation to graduated project. Drove a customer-driven research initiative that overhauled Kedro's dynamic configuration experience, significantly reducing overhead. Continue to serve on the Kedro Technical Steering Committee (TSC) outside of the organisation.
- Directed cross-functional teams to drive consistency and raise engineering excellence across a global ML cross-industry product portfolio.
- Defined privacy-preserving product telemetry standards and rollout practices.
- Organised developer community events and Demo Days to drive reuse and collaboration.

Senior Data Engineer   *2017-02-28 - 2020-12-31*

QuantumBlack (a McKinsey company)

Forward-deployed Data Engineer delivering production ML across pharma, manufacturing, insurance, and motorsport.

- Built reinforcement-learning-driven race strategy software for a championship-winning Formula E team; led Phase 1 (Engineering) and Phase 2 (Product).
- Designed and implemented feature engineering and MLOps deployment pipelines across vaccine production, diabetes patient journeys, motor insurance pricing, water treatment amongst others.

Senior Forensic Data Analyst   *2013-09-01 - 2017-02-17*

PwC

Delivered data-driven investigations into fraud, disputes, and trade surveillance; developed SQL/Python toolkits.

- Analysed Bloomberg communications related to LIBOR front-running.
- Resolved creditor disputes and managed decommissioning projects following the Lehman Brothers bankruptcy.
- Led development of graph-database-powered market surveillance tooling.

Education

BSc in Computer Science with Management   *2010-09-01 - 2013-07-01*

University of Birmingham

Grade: First Class (Hons)

Awards

Best Final Year Student

University of Birmingham, School of Computer Science

Skills

Languages: Python, SQL

Frameworks: Dagster, Airflow, dbt, sqlmesh, PySpark, Kedro, Ibis, Kafka, Pandera, FastMCP, FastAPI

Product & Practices: Product Management, Platform Strategy, MLOps, Telemetry & Privacy, DevEx, CI/CD, LLMs, Testing

Projects

Kedro (Linux Foundation for AI & Data)

Kedro is a toolbox for production-ready data science. It uses software engineering best practices to help create data engineering and data science pipelines that are reproducible, maintainable, and modular.

Publications

Reasoning Over Pre-training: Evaluating LLM Performance and Augmentation in Women's Health

2025-05-23

medRxiv