

Samuel Bernheim

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Experience

Balyasny Asset Management - Data Engineer - **Data Platform** September 2024 - Present

- Developed a multi-tenant data ingestion platform used across the firm to ingest ~10 TB of data per week with peaks of 230 TB per week. The platform enables teams to configure, execute, monitor, and manage jobs that source data from files (S3, SFTP, FTP), SQL databases, emails, and custom Python scripts.
- Improved performance across multiple domains: accelerated data processing step by ~30× for all workloads, reduced test suite runtime by 92% (~1 hour to ~5 minutes), and reduced metric API query times by 95% (minutes to milliseconds).
- Built an operations dashboard spanning all tenants of the platform, showing active and scheduled jobs, quality checks, ingestion and run volume, system health, and topology graphs that trace failing runs to their downstream impact.
- Built a job activity system that lets teams manage and monitor runs, pause to adjust compute resources, inspect and control tasks, compare historical run metrics, view data via a web file explorer, and test out changes with live feedback tools.
- Architected and built a unified, composable form management system for complex multi-endpoint workflows to support reusable forms across create, edit, and wizard flows.
- Own platform reliability work spanning deployments, database scaling, multi-region and disaster recovery planning, and production issues.

Wunderkind - Senior Software Engineer - **Supply and Demand Ads** May 2022 - September 2024

- Led a client facing data visualization project across frontend, backend, analytics, product, design, and customer success.
- Architected and led development of Wunderkind's JavaScript SDK to improve E-Commerce client onboarding time and enable client self serve capabilities for the first time in the company's history.
- Led and implemented bulk capability workflows for an internal React application, reducing hours of work to minutes while increasing test coverage 9% and improving application performance by 75%.
- Architected a new ad unit framework, consolidating functionality, documenting behavior, and improving testability and developed the first new ad unit in years.

Twitter - Software Engineer II - **Developer Platform** April 2021 - May 2022

- Designed the schema and APIs for Tweet Tiles, third-party customizable interactive cards natively embedded in tweets and led implementation of the web rendering system.
- Designed, built, and launched Twitter's Spaces' APIs - supporting retrieval by ID, keyword, host-based discovery, and participant ticket history.
- Developed new API endpoints for Twitter's API using Twitter's internal serverless infrastructure and programming language while contributing platform-level improvements.

Disney Streaming Services - Software Engineer - Disney+ Commerce and Onboarding June 2018 - April 2021

- Developed new capabilities including Premiere Access and global payment systems integrating PayPal, Klarna, and iDEAL for international subscribers.
- Architected and leveraged an internal module to simplify SDK integration and replace direct integration of back-end services using an IoC container.
- Managed our team's summer intern mentoring them on testing, software architecture, and functional programming principles while guiding their summer project.

JavaScript SDK

- Built a dynamic, runtime, type checking NPM module for internal use in the SDK, reducing code duplication and simplifying development.
- Reduced Web SDK build times by 80% through improvements to our build process.
- Unified error handling, messaging, and tests across the codebase.

Web Platform Architecture (DevOps)

- Developed active-active AWS infrastructure across regions, replicated static assets in regional S3 buckets, and kept user requests in the same region to avoid cross-region consistency issues.
- Maintained and improved the Jenkins CI/CD pipeline, resolved build and deployment issues, and built a browser snapshot testing system.

Education

Brandeis University, Bachelor of Science in Computer Science with minor in Economics

2014 - 2018