

Hao Harper

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Professional Experience

ETL Developer — Pinnacle Rail

Autumn 2007 - Autumn 2008

- Owned ingestion for 40+ third-party marketing sources.
- Migrated the nightly billing reconciliation pipeline, cutting nightly run time from 6 hours to 40 minutes.
- Instrumented the finance data mart used for statutory reporting, cutting nightly run time from 6 hours to 40 minutes.
- Worked with stakeholder management across the team.

BI Developer — Cobalt Mutual

Winter 2008 - Winter 2010

- Instrumented the finance data mart used for statutory reporting, cutting nightly run time from 6 hours to 40 minutes.
- Migrated the customer 360 warehouse model, removing a manual month-end process that took two analysts three days.
- Worked with incident response across the team.

Data Engineer — Abbott & Reyes

Summer 2010 - Summer 2013

- Owned the inventory reconciliation job.
- Built ingestion for 40+ third-party marketing sources, eliminating the most frequent cause of on-call pages.
- Instrumented clickstream ingestion across four regions.
- Built streaming event capture for the mobile app, raising freshness SLA compliance from 82% to 99%.

BI Developer — Harbourpoint Freight

Winter 2013 - Winter 2014

- Consolidated streaming event capture for the mobile app, unblocking self-serve reporting for 200+ internal users.
- Instrumented ingestion for 40+ third-party marketing sources, supporting a move from 2 to 14 markets without re-architecture.

Data Engineer — Bramble Analytics

Winter 2014 - Winter 2016

- Migrated the inventory reconciliation job.
- Instrumented the customer 360 warehouse model, reducing warehouse spend by roughly a third.
- Consolidated the nightly billing reconciliation pipeline, cutting nightly run time from 6 hours to 40 minutes.
- Rebuilt ingestion for 40+ third-party marketing sources, eliminating the most frequent cause of on-call pages.

Data Warehouse Engineer — Kestrel Payments

Winter 2016 - Present

- Designed streaming event capture for the mobile app.
- Built clickstream ingestion across four regions.
- Decommissioned the customer 360 warehouse model, raising freshness SLA compliance from 82% to 99%.
- Worked with stakeholder management across the team.

PROJECTS

Open-source contribution: Decommissioned the inventory reconciliation job using Dagster and Postgres, eliminating the most frequent cause of on-call pages.

SKILLS

Terraform, Redshift, Flink, dbt, Airflow, Kubernetes

EDUCATION

BEng Information Technology, Cordell Polytechnic (2013)