

# Matthew Hernandez

## Senior Data Scientist

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Bellevue, WA  
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### WORK EXPERIENCE

#### Expedia Group

Senior Data Scientist

Bellevue, WA | 2022 - current

- Optimized Expedia's search ranking algorithm with research and experimentation with MXNet's reinforcement learning abilities, accelerating click-through rates by 19%.
- Integrated ggplot2 for run sentiment analysis on customer reviews, optimizing hotel listings which increased 17% of positive sentiment scores.
- Leveraged XGBoost to conduct feature engineering and model optimization to enhance the performance of Expedia's dynamic pricing algorithm, boosting revenue 16%.
- Implemented fault-tolerant data processing pipelines with Dask to handle intermittent failures and ensure data integrity, eliminating data loss incidents by 48%.

#### Costco Wholesale

Database Administrator

Issaquah, WA | 2020 - 2022

- Developed Subversion hooks to enforce coding standards and improve code quality, resulting in a 22% decline in post-release defects.
- Completed regular database backups and recovery tests in SQLite, gaining a recovery point objective (RPO) of less than 1.8 hours and minimizing data loss risk.
- Led capacity planning and cost analysis for Google BigQuery usage, optimizing resource allocation and lowering operational expenses by \$16,392.
- Conducted root cause analysis of database incidents and implemented preventive measures to cut down the recurrence rate by 53%.

#### Microsoft

Junior Data Engineer

Redmond, WA | 2017 - 2020

- Used Stanford NLP library to develop custom-named entity recognition (NER) models, recording an accuracy rate of 84% on unstructured text data.
- Employed Alibaba Cloud Message Queue (MQ) to facilitate real-time data streaming between microservices, shrinking message latency by 34 minutes.
- Assisted in troubleshooting and resolving data-related issues, achieving a 96% resolution rate within SLA timelines.
- Coordinated with Microsoft's development teams to integrate SQL-based solutions into their applications, leading to a 27% decrease in database deadlock incidents.

### SKILLS

- Subversion
- MXNet
- Stanford NLP
- SQLite
- Alibaba Cloud
- Google BigQuery
- ggplot2
- XGBoost
- Dask
- SQL

### EDUCATION

Bachelor of Science

Data Science

University of Washington

2013 - 2017

Seattle, WA