

# Nicholas Reeves

Kirkland, WA

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## Data Scientist

*Data Science • Software Development • Business Intelligence • AI + ML • Digital Signal Processing*

**Early career Data Scientist with 3+ years of experience designing analytics and data science projects to identify, organize, and deliver outcomes for the business, including experimental design, statistical modeling, and KPI dashboarding.**

- Proven technical leader skilled at developing processes and systems that convert large amounts of data into actionable insights to improve business performance.
- Able to deliver end-to-end technology solutions using Python that contribute directly to the bottom line.
- Able to work cross-functionally with internal and external stakeholders, translating requirements from non-technical partners to realized analytics architectures, dashboards, and data visualizations.
- Outstanding technical, analytical, mathematical, programming, and communication skills.

## EXPERTISE

<b>Skills:</b>	Data Science, Machine Learning, Artificial Intelligence (AI), Data Analysis, Business Intelligence, Software Engineering, Statistical Modeling, Statistical Testing, Data Visualization, Metric Design, Experiment Design, ETL pipeline development, Data Engineering, Project Management
<b>Programming Languages:</b>	Python, SQL, R, C++, JavaScript, Java; Python Tools: PyTorch, TensorFlow, PySpark, SciPy, Pandas, NumPy, Matplotlib, scikit-learn
<b>Business Intelligence:</b>	Tableau, Snowflake, SQL Server, SAP Hana, Airflow, AWS Lambda, Salesforce, SAP, Oracle, Marketo
<b>MLOps and Big Data:</b>	Git, Docker, Terraform, AWS SageMaker, Hadoop, Spark
<b>Website:</b>	<a href="https://n-reeves.github.io/">https://n-reeves.github.io/</a>

## WORK HISTORY

### Full Time Student

**Queen Mary University of London**, London, UK – 9/2023 – 12/2024

*MS student studying machine learning, AI, software engineering, and signal processing with the Centre for Digital Music.*

### Data Scientist

**Intuitive Surgical, Inc.**, Sunnyvale, CA – 12/2022 – 8/2023

*Intuitive Surgical, Inc. is an American biotechnology company that develops, manufactures, and markets robotic products designed for minimally invasive surgery, such as the da Vinci Surgical System.*

- Saved hundreds of work hours for data scientists by enabling analysis of the relationship between the customer lifecycle and product adoption
- Drove \$200k+ in annual revenue growth by creating and presenting customer-facing sales materials using experiment design, statistical modeling, causal inference, and data visualization
- Improved client relationships by developing a Python-based product analytics tool that automates observational studies, providing customers with deeper insights in less time
- Delivered a \$100k project with 1000+ stakeholders by leading a team of three analysts and engineers. Developed a data model, ETL pipelines, and dashboards using Tableau, Python, and Snowflake

### Insights Analyst

**Intuitive Surgical, Inc.**, Sunnyvale, CA – 11/2020 – 12/2022

- Improved efficiency and reduced work hours across five teams by automating manual processes needed to reconcile the data contained in regular reports, providing sales leadership and C-Suite with real-time visibility of sales pipelines
- Saved over \$250k annually by automating the management of sales contracts with Python-based SQL pipelines and dashboards used by 500+ employees, including the C-suite
- Won an analytics competition with 700+ participants and saved 200+ hours for the data science team by leading a team of three BI analysts in a data warehouse development project
- Saved more than 300 hours annually by developing ad-hoc data pipelines, KPIs, and data visualizations for finance, sales, and marketing teams

### Data and Reporting Analyst

## **Solutran, Plymouth, MN – 6/2020 – 1/2021**

*Solutran is a fintech platform providing consumers with a payment system to instantly receive benefits using a card or mobile app at the point of sale.*

- Improved customer satisfaction by 20% by developing an R script to automate high-value SLA reporting for customer service records, integrating statistical tests to demonstrate to clients how new initiatives drove consistent overperformance
- Strengthened relationship with the customer that purchased the company in 2021 by developing a set of KPIs and reports that measured product engagement

## **EDUCATION**

**Master of Science (M.Sc.), Sound Computing**, Queen Mary University of London, London, UK

*Specialization: Machine Learning and Data Science, GPA: 4.0*

*Coursework: Machine Learning, AI, Big Data Processing, Information Retrieval, Signal Processing, Sound Perception, Deep Learning*

**Bachelor of Arts, Mathematics**, Carleton College, Northfield, MN

*Specialization: Statistics and Computer Science, GPA: 3.6*

*Coursework: Regression Modeling, Experiment Design, Data Science, Probability, Linear Algebra Software Design, Algorithms, Calculus, Bayesian Statistics, Statistical Modeling*

## **PROJECTS**

### **AI-based Speech Enhancement and Source Separation**

*Designed and trained a deep learning model to enhance speech quality by removing background noise and reverberation in multi-speaker audio. The model was effective in real-world settings and acted as a preprocessor for a source separation network that isolated individual speakers into separate channels.*

- Successfully constructed novel AI architecture that worked with real data
- Technologies: Python, Tensorflow, Pytorch, Numpy
- Technical Skills: Python Programming, Machine Learning, Deep Learning, Artificial Intelligence, Speech Enhancement, Signal Processing, Source Separation

### **Generative AI Model for Audio Synthesis**

*Implemented a generative AI model to recreate various guitar tones using differentiable DSP synthesizers, producing realistic instrument sounds through neural networks.*

- Produced conference quality paper and directly informed project strategy for a PhD. candidate researching generative audio for guitar
- Technologies: Python, Tensorflow, Pytorch, Numpy
- Technical Skills: Python Programming, Machine Learning, Deep Learning, AI, Generative Audio, Signal Processing, Music Transcription

### **Machine Learning Consulting with Cornell Lab of Ornithology**

*Collaborated with researchers and software engineers at Cornell to implement and test advanced machine learning models for bird call recognition and population monitoring.*

- Optimized geospatial machine learning model used in the Merlin and Ebird applications
- Ongoing project awaiting results
- Technologies: Tensorflow, Python, Pandas