

# Nick Hass

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## EDUCATION

Brigham Young University Provo, UT

**B.S. in Statistics: Data Science, Minor: Computer Science** December 2022

- *Relevant Coursework:* Deep Learning, Machine Learning, Time Series Analysis, Correlated Data Analysis, Regression Analysis, Statistical Modeling, Bayesian Statistics, Data Structures & Algorithms, Probability, Web Development

## WORK EXPERIENCE

**Deep Learning Researcher**, BYU CS Dept. – Provo, UT September 2022 – Present

- Running experiments and implementing neural networks to count occluded objects in 3D scenes using PyTorch.

**Data Engineer Intern**, DocuSign – Seattle, WA May 2022 – August 2022

- Accelerated data-driven decision making to inform product strategy and execution by developing a data pipeline for Optimizely A/B testing analysis using Python, SQL, Snowflake and Matillion ETL.
- Reduced query latency by 20% by creating a dimensional data model for 40+ billion rows of data.

**Data Engineer**, BYU Broadcasting – Provo, UT April 2021 – May 2022

- Engineered a data pipeline to generate reports on the company's Google Ads campaign success.
- Delivered an internal web app in Vue.js with custom embedded graphs for the CEO and stakeholders to quantitatively understand the network's discoverability index utilizing over 30 million data points.
- Established core social media metrics / insights for 50+ accounts and automated data pipeline, enabling the marketing team to optimize post content / time. Used the Salesforce API, AWS Lambda and Node.js.
- Enabled real-time performance monitoring of ad campaigns and powered data visualization dashboards in Domo by developing a data pipeline in Node.js and AWS Lambda and S3.
- Developed 10+ data pipelines with algorithm-based cloud scripts and ETL processes for data mining using Python, AWS, Node.js, and both relational and NoSQL databases.
- **Technology Used:** Python, JavaScript (Node.js, Vue.js), SQL, AWS (Lambda, S3, Quicksight, DynamoDB, Cloud Watch, RDS), Docker, MariaDB, Domo, Git, Bitbucket, Jira.

**Data Analyst**, BYU Broadcasting – Provo, UT April 2021 – October 2021

- Transformed the data reports given to stakeholders, increasing data literacy throughout the organization.
- Designed self-service dashboards that reduce data analysts' busy work by 40 hours per month.
- Built 12 data visualization dashboards in Domo to communicate metric trends to various stakeholders.

## TECHNICAL SKILLS

- **Data Science:** Python (PyTorch, Sklearn, pandas, numpy), R, SQL, AWS (Lambda, S3), Snowflake
- **Software Engineering:** Java, C++, Python, JavaScript, Node.js, Vue.js, HTML, CSS, Bash, AWS

## PROJECTS

**Follow Up** – Python, Google Sheets API, Docker, AWS Lambda April 2022

- Developed an automatic messaging system for salespeople to follow up with their clients. The salespeople interact with a simple Google Sheet, then automatic messages are sent from their WhatsApp.

**Home Appraisals Analysis** – R April 2022

- Researched and developed an interpretable statistical model that predicts sales price based on home characteristics that explains 93% of the variability in home appraisals.