

JACK HUGHES

Senior Data Scientist

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📍 North Reading, MA

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WORK EXPERIENCE

Senior Data Scientist

Amazon Robotics

📅 2023 - current 📍 North Reading, MA

- Developed a deep learning-based picking algorithm using PyTorch, **decreasing pick-and-place errors by 18%** in robotic order fulfillment.
- Integrated spaCy into robotic quality control processes to analyze defect reports and identify common issues, leading to a 37% reduction in manufacturing defects.
- Employed Apache Spark SQL for ad-hoc analysis of warehouse throughput data, improving robotic workflows which boosted order fulfillment rates by 26%.
- Optimized the machine learning models using NumPy, slashing instances of mispicks by 19% in robotic picking processes.

Database Administrator

Biogen

📅 2020 - 2023 📍 Cambridge, MA

- Leveraged GCP's Stackdriver monitoring and logging tools to detect and troubleshoot database performance issues, shrinking 23% of the mean time to resolution (MTTR).
- Used Java frameworks like Spring and Hibernate, resulting in a 26% cut down in application downtime due to database issues.
- Executed disaster recovery drills for Biogen's critical databases, **achieving a recovery time objective (RTO) of less than 14 minutes**.
- Created GitLab environment-specific variables for database configuration management, lowering configuration errors by 11%.

Research Assistant

Harvard University

📅 2017 - 2020 📍 Cambridge, MA

- Oversaw database-related issues, maintaining a **resolution time of under 24 hours** and minimizing disruptions to research workflows.
- Conducted Seaborn workshops for graduate students, resulting in a 48% improvement in Seaborn proficiency among participants, as per post-workshop quizzes.
- Organized and facilitated focus group discussions with 56 participants to gather qualitative data on community health perceptions, informing public health initiatives.
- Implemented recurrent neural networks (RNNs) with TensorFlow to analyze data from neurological studies, contributing biomarkers for neurodegenerative diseases to 2 peer-reviewed publications.

EDUCATION

Bachelor of Science

Computer Science

Massachusetts Institute of Technology

📅 2013 - 2017

📍 Cambridge, MA

SKILLS

- GitLab
- PyTorch
- spaCy
- PostgreSQL
- Google Cloud Platform
- Apache Spark
- Seaborn
- TensorFlow
- NumPy
- Java