

JOEL BRANDINGER

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EDUCATION

Tufts University

B.S. Data Science

Medford, MA

September 2020 – May 2024

- Minors: Mathematics & Computer Science
- GPA: 3.7 / 4.0
- **Relevant Courses:** Data Structures, Algorithms, Machine Learning, Web Programming, Statistics

EXPERIENCE

Wayfair

Software Engineer

Boston, MA

July 2024 – Present

- Led the design and implementation of a delivery estimate padding feature in C# and SQL, improving average delivery speed by ~0.2 days and increasing reliability by ~300 basis points across fulfillment routes.
- Built and maintained scalable backend services for ingesting transit data from new carriers and warehouse facilities, partnering closely with the operations team to ensure accurate and timely delivery route generation.

Tufts University

Machine Learning Research Assistant

Medford, MA

November 2023 – May 2024

- Built predictive models using Python to forecast urban water usage in Karachi, collaborating with faculty on sustainable resource planning.

JumboCode

Software Developer

Medford, MA

September 2023 – April 2024

- Built a full-stack web application for Sibling Connection, a nonprofit supporting children in foster care, using React, Next.js, TypeScript, MongoDB, and Python.
- Collaborated in a cross-functional student team to deliver a user-friendly platform for organizing sibling reunification events and volunteer coordination.

Principal Financial Group

Software Engineer Intern

Des Moines, IA

May 2023 – August 2023

- Built and maintained ETL pipelines using Informatica, Python, and SQL to populate a large-scale data warehouse.
- Used AWS EC2 to extract and transform Salesforce data, supporting analytics workflows.

Prentiss Hockey Performance

Data Analytics Intern

Stamford, CT

May 2022 – August 2022

- Analyzed performance data from 1080 Motion testing to evaluate training effectiveness, contributing to a 10% average increase in on-ice speed for elite hockey athletes.

SKILLS

Programming Languages: Python, C, C++, C#, Java, JavaScript, SQL

Tools & Frameworks: PyTorch, TensorFlow, Kafka, Postgres, React, AWS, GCP, Git, Kubernetes

Spoken Languages: Swedish (native), English (fluent), Spanish (intermediate)

PROJECTS

Hockey Pathways

Personal Project

- Data-driven application enabling users to explore hockey player progression statistics across leagues and levels.
- Integrated Elite Prospects API and AWS services to collect, store, and process player movement data, providing actionable insights for users.

Chimpanzee Size Estimation

Data Science Capstone

- Developed a computer vision pipeline using OpenCV, PyTorch, and Scikit-learn to estimate chimpanzee size from image, applying pose estimation and instance segmentation techniques.
- Partnered with the Kibale Chimpanzee Project and Tufts Simulation Lab to support non-invasive research methods for primate conservation and behavioral analysis.

ADDITIONAL EXPERIENCE

Two Sigma Tutors

Tutor

Boston, MA

August 2022 – May 2025

Tufts University Varsity Ice Hockey Team

Member

Medford, MA

September 2020 – March 2024