

# 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

Boston, MA

Software Engineer

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

Medford, MA

Machine Learning Research Assistant

November 2023 – May 2024

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

### JumboCode

Medford, MA

Software Developer

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

Des Moines, IA

Software Engineer Intern

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

Stamford, CT

Data Analytics Intern

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

Boston, MA

Tutor

August 2022 – May 2025

### Tufts University Varsity Ice Hockey Team

Medford, MA

Member

September 2020 – March 2024