

# Artem Frenk

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## Education

**Worcester Polytechnic Institute**, BS Candidate, Data Science

August 2023 – Present

**Expected Date of Graduation:** June 2026

### Coursework:

Modeling And Data Analysis	Database Systems
Software Engineering	Introduction To AI
Applied Statistics II	Introduction to the Design and Analysis of Experiments
Business Intelligence	Knowledge Discovery in Databases and Data Mining

## Experience

**Student Intern**, The ASSISTments Foundation – Worcester, MA

September 2024 - Present

- Optimized SQL Queries for Reinforcement Learning Service
- Created custom Self-Attentive Knowledge Tracing architecture for submission to JEDM
- Tools Used: PostgreSQL, Python, Tensorflow, Pytorch

**Data Science Intern**, AI Learners – Remote

May 2024 – August 2024

- Managed Firestore Database
- Created internal application with Flask backend and React frontend to analyze and visualize usage statistics
- Managed app functions using Google Cloud Platform technologies.
- Tools Used: Python, Flask, Typescript, Pandas, ScikitLearn, Seaborn, Looker, BigQuery, Firestore, Matplotlib

**Summer Analyst**, Options Group – Manhattan, NY

June 2024 – Aug 2024

- Worked closely with Options Group analysts to develop detailed profiles on potential candidates.
- Began development on internal tool to automate biography writing using spaCy for Named Entity Recognition (NER) with semantic search
- Tools Used: spaCy, Gradio, Langchain, Polars, Python

## Projects

[Brigham and Women's Hospital Navigation Kiosk](#), Lead Software Engineer

March 2024 - May 2024

- Led a team of 11 in developing a user-friendly navigation app with authentication for Brigham Women's Hospital visitors. Used external security cameras to update pathfinding algorithms leading to 34% less travel time through more trafficked hallways
- Tools Used: Typescript, AWS, React, Python, Flask, PostgreSQL, YoloV8, TailwindCSS

## Publications

**Investigating the Robustness of Knowledge Tracing Models in the Presence of Student Conceptual Drift**

October 2024

Morgan Lee, *Artem Frenk*, Karish Gupta, Thinh Pham, Ethan Croteau, Neil Heffernan

*Submitted for publication*

## Technologies

**Languages:** Python, R, SQL, Java, JavaScript, Typescript, Bash, VBA

**Machine Learning :** Pytorch, Tensorflow, Scikit Learn, Sktime

**Data Science:** Pandas, Polars, Statsmodels

**Graphing:** Matplotlib, Tableau, Seaborn, Ggplot2

**Database Systems:** PostgreSQL, Oracle DMBS, Firestore, MongoDB

**Natural Language Processing:** NLTK, spaCy, Gensim