

Charlie Denhart

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Science, GPA: 3.7

August 2021

Bachelor of Science in Data Science and Economics/Mathematics, GPA: 3.4

August 2020

- Activities: Alpine Ski Team, Economics Society (President), Federal Reserve Challenge Team

EXPERIENCE

SimpliHost

Remote

Contract Software Engineer

July 2021 – November 2021

- Developed a MVP for a real estate service using Express, React, and Postgres
- Worked closely with the founder to determine technical directions


Northeastern University

Boston, MA

Research Assistant - Multi-Modal Unsupervised EHR Summarization

January – June 2021

- Built a Flask app allowing user interaction with text-image region alignment models in radiology reports
- Engineered pipelines for ML models in PyTorch and TensorFlow.js to optimize application performance

Research Assistant - A Geographic Examination of the Opioid Crisis 

November 2019 – November 2021

- Analyzed geographic and behavioral patterns of opioid users during the coronavirus pandemic
- Built a Python program that infers opioid user locations from natural language in online forums
- Constructed an ETL pipeline to persist data extracted from Reddit into a MongoDB database

Care Dash

Cambridge, MA

Software Engineering Intern

June - August 2020

- Deployed features to an internal content management web app using Flask
- Researched/evaluated using the BERT language model in a system for detecting fake physician reviews

Parquet Capital

Boston, MA

Data Science Intern

September – December 2019

- Explored data modeling strategies for SPACs, communicating closely with the chief investment officer

Acadian Asset Management

Boston, MA

Business Analyst/Developer Intern

May – August 2019

- Automated business and operations workflows using Python programs

Jacob Realty

Boston, MA

Real Estate Agent

January 2018 – November 2019

- Generated over \$35,000 in commission from rental properties in the Greater Boston Area

PROJECTS


Genre Classification with Attention

 | *PyTorch, Jupyter*

Spring 2021

- Trained models to assign a genre to music and used attention weights to analyze model behavior

Maze Solving Robot with Q-Learning

 | *C++, Arduino, Git*

Fall 2020

- Wrote a Q-learning algorithm from scratch that trains an Arduino robot to solve a physical maze

SKILLS

Languages: Python, Java, SQL, JavaScript, HTML/CSS, R, C++

Frameworks/Tools: PyTorch, Scikit-Learn, Flask, Bootstrap, Git, React, Jupyter, HuggingFace, AWS