

# Charlie Denhart

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## EDUCATION

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### Northeastern University

Boston, MA

*Master of Science in Computer Science*

*August 2021*

*Bachelor of Science in Data Science and Economics/Mathematics*

*August 2020*

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

## EXPERIENCE

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### Freelance

*Software Engineer*

*July 2021 – Present*

- Lead developing a full-stack web app in TypeScript and React for a real estate startup

### Northeastern University

Boston, MA

*Research Assistant - Multi-Modal Unsupervised EHR Summarization*

*January – June 2021*

- Built a web app that allows exploration of relationships between radiology report text and images

*Research Assistant - Auditing Algorithms to Predict Opioid Use Disorder*

*December 2020 – June 2021*

- Contributed to a data pipeline that processes insurance claims data and predicts opioid abuse cases

*Research Assistant - Street Opioid User Location Inference*

*November 2019 – Present*

- Designed a program that infers street opioid user's locations using conversations in online forums
- Constructed an ETL pipeline to persist data extracted from Reddit in 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

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### 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

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

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