# Charlie Denhart

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## EDUCATION

**Northeastern University** — Boston, MA
*Candidate for Master of Science in Computer Science* — *Expected August 2021*

*Bachelor of Science in Data Science and Economics/Mathematics* — *August 2020*
- Activities: Alpine Ski Team, Economics Society (President), Federal Reserve Challenge Team

**The London School of Economics and Political Science** — London, UK
*Study Abroad* — *July - August 2018*

## EXPERIENCE

**Northeastern University** — Boston, MA
*Research Assistant - Multi-Modal Unsupervised EHR Summarization* — *January 2021 – Present*
- Built a Flask app visualizing radiology reports overlaid with joint image/text attention from PyTorch models

*Research Assistant - Auditing Algorithms to Predict Opioid Use Disorder* — *December 2020 – Present*
- Contributed to an ETL pipeline that processes insurance claims data, used for predicting opioid abuse

*Research Assistant - Black-Market Opioid Pricing* — *November 2019 – Present*
- Designed a program that infers black-market opioid user's locations using conversations from 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 CMS, built with Flask
- Researched and evaluated incorporating BERT into a system for detecting fake physician reviews

**Parquet Capital** — Boston, MA
*Data Science Intern* — *September – December 2019*
- Explored integrating various data modeling strategies into trading strategies for SPACs using Scikit-Learn
- Communicated closely with the chief investment officer, presenting results and findings through Jupyter Notebooks

**Acadian Asset Management** — Boston, MA
*Business Analyst/Developer Intern* — *May – August 2019*
- Reduced the time of business-side workflows by several hours through automation with Python programs
- Collaborated with business and IT departments to identify areas for process improvement and design solutions

**Jacob Realty** — Boston, MA
*Real Estate Agent* — *January 2018 – November 2019*
- Generated over $35,000 in revenue through commission from rental properties in the Greater Boston Area

**FrontStream** — Cambridge, MA
*Marketing and Sales Intern* — *September – December 2016*
- Organized Salesforce/Excel datasets and coordinated with sales/marketing teams to process leads more efficiently

## PROJECTS

**Maze Solving Robot using Q-Learning** | *C++, Arduino, Git* — Fall 2020
- Wrote a Q-learning algorithm from scratch that trains a robot to solve a physical maze

**ICD Tagging with Recurrent Neural Networks** | *PyTorch, Jupyter* — Fall 2019
- Trained a long short-term memory model to assign ICD-9 diagnostic codes to free text clinical notes

## SKILLS

**Languages**: Python, Java, SQL (Postgres), JavaScript, HTML/CSS, R, C++
**Frameworks/Tools**: PyTorch, Scikit-Learn, Flask, Bootstrap, Git, React, Jupyter, HuggingFace, AWS