

Katie House

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EDUCATION

University of Massachusetts Amherst, Amherst, MA January 2017 - December 2019 (expected)
Master of Science in Computer Science candidate, concentrating in Data Science GPA: 4.0
Relevant Coursework: Machine Learning, Data Visualization and Exploration, Big Data Analytics

Northeastern University, Boston, MA May 2017
Bachelor of Science in Industrial Engineering, magna cum laude GPA: 3.8
Minor: Business Administration
Honors: Dean's List (7 semesters), Tau Beta Pi Engineering Honors Society, Student Achievement Award Scholarship

WORK EXPERIENCE

Center for Data Science, University of Massachusetts Amherst, MA June 2018 - Present
Data Science for the Common Good Team Member

- Researched automatic parking detection machine learning algorithms and implementations
- Collected ground truth data for the current state of Parking Utilization in downtown Amherst

Reich Lab, University of Massachusetts Amherst, MA April 2018 - Present
Graduate Programmer

- Led the Postgres database administration efforts by importing and exporting Dengue Fever data with SQL and R
- Collaborated with Thailand partners to improve methods of forecasting of Dengue Fever outbreak

Hasbro, Pawtucket, RI January - August 2016
Project Engineering Co-op - Playskool Heroes

- Initiated a process to automatically query business intelligence data for engineering reports
- Developed a tool with VBA to enhance scheduling and increase project tracking efficiency
- Led a team of interns to pitch a new product for the Engineering Product Innovation Challenge

Credit Suisse HOLT, New York, NY January - June 2015
Investment Strategy Co-op

- Recognized for data analytics research in Credit Suisse Corporate Insights capital allocation paper
- Built a back-test loader in SQL and VBA that aggregated and visualized stock performance metrics

RELEVANT PROJECTS

SheHacks Boston Winner – Audie January 2018

- Won two awards in the world's largest all-female and non-binary hackathon competing with over 150 teams
- Collaborated in a team of four hackers to create a smart bear that improves hospital experiences for children
- Integrated Google Cloud's NLP and Speech APIs, MATLAB, and an Arduino circuit to analyze patient sentiment

Senior Capstone Multimodal Urban Travel Planning September 2016 - May 2017

- Won the 'Biggest Impact' capstone award, competing with over 20 Northeastern capstone teams
- Sponsored by Ford Motor Company to create a Boston multimodal transportation trip planning tool

COMPUTER AND LANGUAGE SKILLS

Languages: Python, SQL, R, JavaScript, HTML, CSS, VBA
Operating Systems: Windows, Mac OS X, Linux (Ubuntu)

Technologies: Scikit-learn, Spark, D3.js, TensorFlow
Databases: PostgreSQL

ACTIVITIES AND INTERESTS

- Involved in community service and alumni events with Northeastern's Student Alumni Association for 5 years
- Studied abroad in Dublin, Ireland at University College Dublin in the fall of 2015
- Enjoy baking, pouring latte art, and playing the piano