

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
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, Graduate Intern *Python, JavaScript*

- Researched machine learning algorithms and implementations for parking occupancy detection
- Engineered a process in Python for detecting Amherst parking lot occupancy from over 20,000 images
- Designed and developed an interactive visualization tool for parking utilization predictions with D3.js

Reich Lab, University of Massachusetts Amherst, MA April 2018 - Present
Graduate Programmer *SQL, R, Python*

- Led the Postgres database administration efforts by importing and exporting Dengue Fever data
- Collaborated with Thailand partners to improve methods of forecasting of Dengue Fever outbreak
- Contributed to an R Package ForecastFramework with a new wrapper on a SARIMA forecasting model

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

- 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 (EPIC)

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

- 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 EXPERIENCE

HackHer413 May 2018 - Present
Founder and Director *HTML, CSS*

- Headed efforts to start an all-women and non-binary student hackathon at UMass
- Oversaw 8 planning team members to plan for the expected turnout of 300 students

SheHacks Boston January 2018
Winning Team Member - Audie *Python*

- Won two awards in 2018's largest all-female and non-binary hackathon competing with over 150 teams
- Integrated Google Cloud's APIs, MATLAB, and an Arduino circuit to improve hospital experiences for children

Senior Capstone Multimodal Urban Travel Planning September 2016 - May 2017
Winning Team Member *VBA*

- 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, Git, TensorFlow
Databases: PostgreSQL