# Liz Lucas

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**LANGUAGES & TOOLS**

Best: Python, C#, SQL, Familiar: Java, SML, Haskell, JavaScript, C
Django, LaTeX, scikit-learn, PowerBI, Keras, Azure, Git

**WORK EXPERIENCE**

**Liberty Mutual Insurance**, Boston, MA                                   Aug 2020 – Current

Data Scientist, Corporate Functions
- Analyze and visualize data to understand developer performance and identify roadblocks in development.
- Recommend practices and tools that will improve productivity and satisfaction based on analyses.
- Perform ETL work for the team to ensure easy access to well-formatted data, faster iteration on visualizations, and greater support of large datasets.

**Smartvid.io**, Cambridge, MA                                   Aug 2019 – Apr 2020

Data Engineer, Research Team
- Cleaned and analyzed data for the Predictive Analytics Strategic Council (PASC), which pools data from the council of construction companies to improve model performance.
- Helped maintain and create infrastructure and internal tools for data-driven initiatives, enabling the sales team to rapidly iterate on customer-facing dashboards via a streamlined pipeline.

**Blackbaud**, Emeryville, CA                                   Aug 2017 – Dec 2017

Software Engineering Intern, Data Platform
- Helped integrate Azure machine learning (ML) services into Blackbaud's data platform, enabling ease of access for future data analysis across multiple data sources.
- Researched how to leverage ML to improve non-profit fundraising by understanding the relationships and social networks between donors and organizations.

**Mozilla**, San Francisco, CA                                   May 2017 – Aug 2017

Graduate Research Intern, Servo
- Built the groundwork for a ML system to detect and remove invasive interstitial ads by recognizing and ignoring the associated web elements during rendering.
- Leveraged OpenCV and the CommonCrawl dataset for feature engineering a computer vision based prototype
- Technical report & code available: arxiv.org/abs/1708.04879

**Blackbaud**, Charleston, SC                                   May 2016 – Dec 2016

Software Engineering Intern, Financial Edge NXT
- Developed part of the API for Blackbaud's accounting software (documentation at developer.blackbaud.com), allowing 3rd party clients to access and manipulate data more directly.
- Created APIs for General Ledger and Accounts Payable services and worked with QA to create unit and integration tests for the API endpoints in Specflow

**PROJECTS**

- Understanding prediction of low-quality comments in online science discourse
  Master's Thesis investigating online science discourse on Reddit's /r/science
  Prediction used both traditional and neural network machine learning models
  Results were interpreted using collected survey and moderation data
  Published at WNYISPW: https://ieeexplore.ieee.org/document/8923109

- Integrated Optical Character Recognition (OCR) into a Blackbaud product
  Team project in C# during a 24-hour company hackathon, placed 2nd overall
  Presented at BBCON 2016 alongside the other two finalists

- Implemented SLAM onto a Neato XV Robotic Vacuum
  Graduate-level independent study on mapping and localization algorithms
  Learned basics of the Robot Operating System (ROS) using Python

**EDUCATION**

**Rochester Institute of Technology**, Rochester, NY                                   Aug 2013 – May 2019

Dual Bachelors and Masters (BS/MS) in Computer Science
- Honors: RIT Achievement Scholarship, Dean's List
- Relevant Courses: Pattern Recognition, Big Data Analytics, Programming Language Theory, Computational Complexity