Liz Lucas

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LANGUAGES & SKILLS

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

WORK EXPERIENCE

Smartvid.io, Cambridge, MA

Data Engineer, Research Team — Aug 2019 – Apr 2020
- Cleaned and analyzed data for the Predictive Analytics Strategic Council (PASC)
- Helped maintain and create infrastructure and internal tools for data-driven initiatives

Blackbaud, Emeryville, CA

Software Engineering Intern, Data Platform — Aug 2017 – Dec 2017
- Helped integrate Azure machine learning (ML) services into Blackbaud's data platform
- Researched how to leverage ML to improve non-profit fundraising

Mozilla, San Francisco, CA

Graduate Research Intern, Servo — May 2017 – Aug 2017
- Built the groundwork for a ML system to detect and remove interstitial ads
- Leveraged OpenCV and the CommonCrawl dataset for feature engineering
- Technical report & code available: arxiv.org/abs/1708.04879

Blackbaud, Charleston, SC

Software Engineering Intern, Financial Edge NXT — May 2016 – Dec 2016
- Developed part of the public API for Blackbaud's accounting software (documentation at developer.blackbaud.com)
- Created APIs for General Ledger and Accounts Payable services used by 3rd party clients
- Worked with QA to create unit and integration tests for the API endpoints in Specflow

Center for Accessibility and Inclusion Research, Rochester, NY

Research Assistant, Software Engineering — Jun 2015 – Aug 2015
- Worked on an accessible web app that provides details about user-inputted data
- Publicly available on GitHub: github.com/RITAccess/Glance-data-analyzer

EDUCATION

Rochester Institute of Technology, Rochester, NY

Dual Bachelors and Masters (BS/MS) in Computer Science — May 2019
- Honors: RIT Achievement Scholarship, Dean's List
- Relevant Courses: Pattern Recognition, Big Data Analytics, Programming Language Theory, Computational Complexity

PROJECTS

- Understanding prediction of low-quality comments in online science discourse
  Master's Thesis investigating online science discourse on Reddit's /r/science
  Prediction using traditional and neural network machine learning models
  Results were interpreted using collected data from online moderators
  Available for download at https://scholarworks.rit.edu/theses/10041/
- Integrated Optical Character Recognition (OCR) into a Blackbaud product
  Team project in C# during a 24-hour hackathon, placed 2nd overall
  Presented at BBCON 2016 alongside the other two finalists
- Built an OCR for handwritten mathematical expression recognition
  Partner project in Pattern Recognition class using the CROHME dataset
  Written in Python using the scikit-learn library for random forests
- Implemented SLAM onto a Neato XV Robotic Vacuum
  Graduate-level independent study on mapping and localization
  Learned basics of the Robot Operating System (ROS) using Python

INTERESTS

Ethics in AI, Pattern Recognition, Language & Compiler Theory, Robotics.
Classical & Jazz Piano, Oenology, Rock Climbing, Animal Activism.