Liz Lucas

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LANGUAGES & TOOLS

Best: Python, C#, SQL; Familiar: PHP, Javascript, Java, Haskell
Django, LaTeX, scikit-learn, Laravel, PowerBI, Keras, Azure, Git

WORK EXPERIENCE

Rochester Institute of Technology, Rochester, NY   Jul 2023 – Current

Web Developer, CADTech

- Full-stack software engineer responsible for maintaining and improving internal client facing applications used by the College of Art and Design, utilizing a LAMP stack with the laravel framework.
- Supported applications include CAD Checkout, an inventory management system used to manage millions of dollars of equipment between the film, photography, and game design departments; RIT API, an internal facing API for accessing information about room utilization to assist with scheduling and tech support; CourseShare, a filesharing tool to enable students to easily submit extremely large files such as animation renderings for classes.

Jodi Bee Bakes, Salem, MA   Mar 2021 – Sep 2023

Owner/Operator

- Managed a team of up to 10 people in a fast paced kitchen environment.
- Performed all administrative and management duties including purchasing, money management and revenue forecasting; scheduling and staff/talent acquisition and management; maintained partnerships with vendors and relationships with local businesses including negotiating wholesale orders.
- Wore many hats, including front of house, baking, prep work, kitchen management, marketing & social media management, and custom order processing with a demanding and particular client base.

Liberty Mutual Insurance, Boston, MA   Aug 2020 – Feb 2021

Data Scientist, Corporate Functions

- Analyzed and visualized data to understand developer performance and identify roadblocks in development.
- Recommended practices and tools that will improve productivity and satisfaction based on analyses.
- Performed ETL work for the team to ensure easy access to well-formatted data, faster iteration on visualizations, and greater support of large datasets.

Newmetrix (fka 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 ETL pipelines and other infrastructure and internal tools for data-driven initiatives, enabling the sales team to rapidly iterate on customer-facing dashboards.

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

EDUCATION

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

Dual Bachelors and Masters (BS/MS) in Computer Science
Relevant Courses: Pattern Recognition, Big Data Analytics, Programming Language Theory, Computational Complexity
Thesis: Understanding prediction of low-quality comments in online science discourse

- Master's Thesis investigating online science discourse on the /r/science community on Reddit
- Prediction used both traditional (e.g. SVM) and neural network machine learning models
- Results were interpreted using collected survey and moderation data
- Published at WNYISPW: https://ieeexplore.ieee.org/document/8923109