MADELYN M. KAPFHAMMER

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in mkapfhammer ○ MaddyKapfhammer

EXPERIENCE

Data Analyst - Partner Applications

Overstock.com

📅 May 2021 – September 2021   ● Midvale, UT

- **Research** Analyzed data and performed user research to create personas for over 2,000 Overstock.com partners in 3 major research projects
- **Analysis** Quantified partner interactions, measuring platform engagement, revenue sales, partner satisfaction product categories and overall success for partners on Overstock.com
- **Contributions** Studies informed the Partner Applications and Partner Experience departments to further improve platforms for partner growth and development

Software Engineer

Allegheny College

📅 May 2020 – December 2020   ● Meadville, PA

- **Software Development** Implemented a predictive wellness tool–Vigor–which utilizes 5 datasets, 3 classification algorithms and 2 web application platforms to assess the health risks of an individual
- **Contributions** Funded by Mozilla Foundation's Responsible Computer Science Challenge to aid in implemting ethics into Allegheny College courses

Technical Leader

Allegheny College

📅 August 2020 – Present   ● Meadville, PA

- **Instructed** Assisted and advised students in 4 different classes of Allegheny College's Computer Science and Biology Departments
- **Responsibilities** Performed tasks relating to coding basics, programming best practices, code review, computer science principles, data visualization, hypothesis development, and statistical analysis

PERSONAL PROJECTS

PyGotham 2021

Presenter - Prioritizing Pandemic Rates with Python

Presented a Python random-search algorithm with the purpose of optimizing epidemic rates to inform public health interventions

ActionTraction

Main Developer

Implemented a program to analyze structural and content evolutionary changes of GitHub Actions workflow files to determine predominat trends in new forms of continuous integration

Gator-Cogitate

Project Manager

Developed a software tool that determines an individual's contribution to a GitHub repository and the ability of collaborators to work as a team on high-level software projects

PyOhio 2019

Presenter - Find Your Feature Fit

Co-presented with Dr. Gregory Kapfhammer the stark comparisons between the Microsoft Visual Studio Code and Vim text editors for Python programming

EDUCATION

Bachelor of Science

Allegheny College

📅 Anticipated Graduation May 2022

Biology and Computer Science
GPA: 3.950

High School Degree

Cochranton High School

📅 Graduated June 2018

Class Valedictorian
GPA: 4.0

DEVELOPER TOOLS

Linux   Git   GitHub   Pytest   Docker
Netlify   Microsoft Visual Studio Code
Scikit-learn   TensorFlow   Netlify
Pandas   Numpy   R Studio   Ggplot2
LaTeX   Dplyr   PyMed   OpenCV
Spacy   Poetry   Lex and Yacc   Atom

LANGUAGES

Python ● ● ● ● ◗

Java ● ● ● ● ◔

R ● ● ● ◔ ◔

JavaScript ● ● ◗ ◔ ◔

SQL ● ◗ ◔ ◔ ◔

HTML ● ◗ ◔ ◔ ◔

RELEVANT COURSES

Biostatistics   Software Engineering
Microbiology   Disease Ecology
Programming Langauges   Bioinformatics
Algorithm Analysis   Data Structures
Single-Variable Calculus   Multi-Variable Calculus

Artificial Ingelligence   Computer Security
Intro to Global Health   Evolution
Data Abstraction   Organic Chemistry
Database Systems   Immunology