Reilly McLaren
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EDUCATION

Virginia Tech (Blacksburg, Virginia)   August 2017 - May 2021
B.S. in Computer Science, Applied Discrete Mathematics
Cumulative GPA: 3.93/4.0

WORK EXPERIENCE

ThinkTrends - Machine Learning Startup, *Full Stack Engineer*   Spring 2022 - Present
- As one of four core engineers, contributed to diverse tasks including deployment, automation using python scripts, designing and implementing new microservices, and enhancing existing user experiences
- Worked on the end-to-end machine learning model build/run process, ensuring seamless integration of models into the application and facilitating efficient model iteration.
- Developed an audit logging feature to track user changes in the application data, which has tracked >10,000 changes. Also built an autocorrect service using these tracked changes, decreasing redundancy when making edits.
- Created a fuzzy match microservice(a dockerized flask application which included celery task workers) handling the aggregation of malformatted documents into unique entities in a large dataset.
- Added gitlab CI/CD for several of our microservices, streamlining our development process.
- Reworked the ThinkTrends website to improve its look and feel, enhancing the user experience and ensuring a modern and visually appealing design
- Utilized AngularJS, Elasticsearch, Docker, Gitlab, and Python to accomplish project goals

BlochSoft Technologies - Renewable Energy Startup, *Part-time Partner*   Winter 2022 - Fall 2022
- Contributed significantly to BlochSoft's acceptance into the Cleantech Open Accelerator Program
- Created a web application to calculate potential solar energy at a given address, a 30 second process

Workaway, *Global Volunteer*   Summer 2021 - Winter 2021
- Sought out experiences in the U.S., Spain, France, and Turkey working in various environments
- Created a node-red application using a combination of IOT devices and turbines to track net water production/consumption

PROJECTS

Goal Tracker, *Personal Project*   Spring 2023
- Web application using Angular in front end and Node.js/MongoDB in backend to track personal progress related to goals. Inspiration was track progress playing the alto saxophone.
- Includes visualizations to help identify trends, various media formats to see/hear growth over time

Robinhood Automated Investments, *Personal Project*   Winter 2021
- Created a program to automatically trade stocks on Robinhood, using Python/SQLite hosted on Heroku, which has conducted over 12,000 trades
- Trading algorithm is used in conjunction with real-time data retrieved using the Robin-Stocks API

LEADERSHIP

Association for Computing Machinery at Virginia Tech, *President*   Spring 2019 – Spring 2021
- Demonstrated a strong commitment to fostering a supportive and inclusive environment for all Computer Science students
- Initiated and led the organization of multiple successful events– Department Town Hall, Department Biweekly Roundtable, Works of Wonder Student Project Showcase, Computer Science Organization Roundtable

SKILLS

Programming (8 years of experience) – {JavaScript, Python, Java, C, Python, C++, MATLAB, SQL}, Communication, Project Management, Video/Sound Editing