Trevor Kollins

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HYPERLINKS

Website: **TrevorKollins**
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SKILLS

LANGUAGES

Python JavaScript

C C++ C#

HTML CSS Shell

TOOLS

Docker Kubernetes

Git Flexbox

GitLab Jenkins

FRAMEWORKS

Flask Django

React REST

EDUCATION

UNIVERSITY OF WATERLOO

BS COMPUTER SCIENCE

Expected Apr 2023
Cum. GPA: 3.8

COURSEWORK

- OOP Principles
- Data Structures
- Algorithms
- SE Design Patterns
- Operating Systems
- User Interfaces

EXPERIENCE

WISH (CONTEXTLOGIC) | INFRASTRUCTURE
May 2020 – Aug 2020 | San Francisco, CA

- Utilized Flask to design and implement core functionality in RESTful API requests, interfacing with AWS DynamoDB to store, retrieve, and update incoming data.
- Refined and maintained GitLab continuous integration pipelines, empowering hundreds of engineers to build, test, and deliver their changes with ease.
- Created and deployed microservice templates with the use of Docker, Kubernetes, and Python, streamlining new additions to the existing microservice architecture.
- Wrote hundreds of automated tests to ensure the quality of script and API changes.

FORD MOTOR COMPANY | TEST AUTOMATION
May 2019 – Aug 2019 | Waterloo, ON

- Scripted new Python driven test automation tools to run on Jenkins instances.
- Saved upwards to 3 hours a day on test failure identification through log parsing and pattern recognition scripts.
- Utilized the SonarQube API to revise how existing test data scrapper tools stored output, saving over an hour of manual work a week.

LET'S-A-GAME CHARITY EVENTS | DIRECTOR & TEAM LEADER
Nov 2016 – Present

- Directed 7 online charity fundraisers in support of several charities.
- Managed a team of 24 people in events ranging from 72 - 120 hours.
- Responsible for the building any software needed, including crafting the end-user experience with the Luma Donation Notification System.

PROJECTS

IPA PLUS | TREEHACKS
Feb 2020 Stanford University | **React · Django · Python · Javascript · CSS**

- Created a visual English pronunciation aid utilizing an IPA dictionary.
- Routed application URLs and stored a small database of information using Django.
- Crafted a responsive and elegant user interface with React.

GARBADOOR | YHACK - WINNER (BEST USE OF GOOGLE CLOUD)
Oct 2019 Yale University | **React · Flask · Firebase · JavaScript · CSS · Python**

- Awarded "Best Use of Google Cloud" by Google out of over 1000 hackers.
- Built a self-sorting garbage can using the Google Vision machine learning model, an Arduino micro-controller, and a comprehensive Firebase database.
- Used the Google Maps API to pose real-time city maintenance solutions through automated garbage collection statistics.
- Integrated a responsive UI through React, Python scripts, and a Flask backend.

LUMA DONATION NOTIFICATION SYSTEM
July 2019 - Present | **Socket.IO · HTML · CSS · JavaScript · Python**

- Designed a real-time donation notification application for online fundriaisers.
- Utilized the Socket.IO Python and JavaScript libraries to construct an interactive, event-driven, asynchronous user experience.
- Employed Tiltify's API to receive live fundraiser updates.
- Constructed a comprehensive dashboard to push new event information.
- Facilitated over $1630 in donations towards charitable causes.