Trevor Kollins

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HYPERLINKS
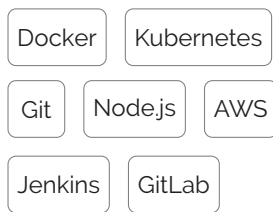
Website: **TrevorKollins**
LinkedIn: **Trevor Kollins**
GitHub: **tdkollins**
Devpost: **tdkollin**

SKILLS

LANGUAGES

Python · JavaScript · SQL
Go · Bash · HTML · CSS
C · C++ · C# · Java

TOOLS

Docker · Kubernetes
Git · Node.js · AWS
Jenkins · GitLab

FRAMEWORKS

REST · Flask · Django
Hadoop · GraphQL
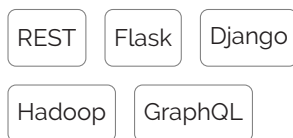
EDUCATION

UNIVERSITY OF WATERLOO

BS Computer Science

Expected Aug 2023
Cum. GPA: 3.9

COURSEWORK

- OOP Principles
- Data Structures
- Algorithms
- Security and Privacy
- Operating Systems
- Databases
- Machine Learning
- Concurrency
- Distributed Computing

EXPERIENCE

SPLUNK | Backend
Sept 2021 – Dec 2021 | San Francisco, CA

- Spearheaded project proposals, including coordinating design specifications and technologies with the client, resulting in being awarded intern of the month.
- Reduced build and deploy time by introducing run-time dynamic pipelines to GitLab.
- Built role-based authentication (RBAC) features for Flask and SQL services.
- Dynamically notified developers on MR/PR updates with Node.js and the Slack API.
- Investigated and implemented a framework for automatic service testing, using GitLab and Docker Compose to construct the testing environment.

PRONTI AI INC | Backend
Jan 2021 – Apr 2021 | Kitchener, ON

- Created multiple Flask RESTful and GraphQL based API microservices from scratch, interfacing with PostgreSQL and SQLAlchemy to provide core app functionality.
- Overhauled all Kubernetes clusters in preparation for the startup launch, adding Grafana support, vast security improvements, and cluster recovery shell scripts.
- Interfaced with multiple AWS services, including S3, ECR, EC2, CloudFormation, EKS and IAM for project management, and Cogntio and SES for user authentication.
- Spearheaded database schema and API designs for several microservices.

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

- Utilized Flask to design and implement core features 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 3 hours a day on test failure identification through 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.

PROJECTS

PROJECT ASTRA
May 2021 - Aug 2021 University of Waterloo | **MySQL · Go**

- Created an application where users can explore NASA's Near Earth Object dataset.
- Utilized Go and MySQL to build backend API endpoints and database queries.

GARBADOOR | YHack - Winner (Best Use of Google Cloud)
Oct 2019 Yale University | **React · Flask · Firebase · CSS · JavaScript · 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.
- Integrated a responsive UI through React, Python scripts, and a Flask backend.