Cole Harris

B.S. Computer Science Student

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EDUCATION

Colorado State University, Fort Collins, CO — Graduated: December 2023
Bachelor of Science — Computer Science — Major GPA: 3.85 / 4.0
Colorado State University, Fort Collins, CO — Graduated: May 2020
Bachelor of Science — Chemical and Biological Engineering — GPA: 3.67 / 4.0
- Dean's List Recipient: Spring 2017, Fall 2019, Spring 2020

WORK EXPERIENCE

Software Test Engineer Intern – Visa — May 2023 – August 2023
Highlands Ranch, CO
- Developed and enhanced an in-house Software Test Automation tool leveraging java, maven, artifactory, and full-stack software development technologies while following the Agile project methodology.
- Implemented a key feature enabling seamless data integration by pushing test execution data to MongoDB.
- Designed and implemented a backend RESTful API interface using Spring, enabling efficient retrieval and management of software test execution data.
- Crafted a front-end application utilizing React to visualize and present software test execution data.

Process Controls Engineer – Huffman Engineering Inc. — October 2020 – May 2022
Englewood, CO
- Designed ~50% of the process controls software for a new ~$200 million animal vaccine production facility ($3+ million process controls project budget). This involved the following:
  - Involved designing the code for 14 Programmable Logic Controllers (PLC) to adhere to the ISA-88 standard.
  - Contributed towards 20+ Human Machine Interface (HMI) screen designs and Supervisory Control and Data Acquisition (SCADA) design employing Thin Clients to adhere to HMI high performance graphics standards.
  - Understanding of the processes, networking/servers, and audit trail.
- Developed Rockwell Programmable Logic Controller's (PLC) programs for new and existing Pharmaceutical/life sciences systems to modernize client's processes.
- Improved networking quality and modernized two pharmaceutical packaging line's equipment by upgrading and configuring PLC's, HMI's, Industrial Ethernet Switches, and networking equipment.
- Received client feedback of having excellent technical writing and communication skills on complex topics.

Personal Projects

Migrated Personal Website to AWS: https://www.coleharris.dev/#projects
- Personal website migrated to AWS with a fastAPI backend in a docker container on an AWS EC2 instance.
- FastAPI RESTful API sends OAuth2.0 authenticated API requests to Kroger for store and product data to be displayed via a single page React web app (React grocery list web app project below).
- Frontend React app and static webpages are stored in AWS S3 and served via AWS Cloudfront with DNS routing managed via Route 53.

React Grocery List Web App: https://www.coleharris.dev/grocery_app/
- React app that sends API requests to fastAPI (previously Django project below) backend RESTful API that sends OAUTH2.0 authenticated API requests to Kroger.
- Provides current store data and can export ordered grocery lists.

Django Backend: https://github.com/Cole-T-Harris/Django-FullStack-Website
- Django Backend that serves html web pages and react apps and is hosted utilizing Heroku a cloud hosting platform.
- Additionally acts as a RESTful API to handle api requests for React Grocery List Web App