Kirsten Phillips
Software Engineer

k-h-phillips.github.io ⬈
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Work Experience

Software Engineer
Top Secret/SCI with Polygraph

IT Availability LLC. – Vienna, VA
September 2022 – ongoing

Python automated data collection and processing applications

`Python` `Playwright` `JSON` `MongoDB` `REDIS` `Bash Scripting` `Powershell` `Azure` `GitLab` `Linux` `Windows`

➔ Implemented Python applications to accomplish automated data collection via APIs and other collection strategies
➔ Analyzed and transformed raw and unstructured data into semi-structured JSON data and collaborated with a full stack team that used ETL pipelines to extract entity relationships and display them to end users
➔ Designed and implemented MongoDB and REDIS databases to store scheduling information and collection metadata, successfully reducing duplicate data collection and storage costs by 50% for US-Government clients
➔ Developed in Linux and Windows operating systems and used bash and powershell scripting for automated tasks
➔ Contributed to standard operating procedures (SOPs) for code review, documentation, and codebase management

Front-end web application plugin

`JavaScript` `HTML` `CSS` `Bootstrap` `TypeScript` `Node.js` `React` `AWS` `S3` `EC2` `Lambda` `GitHub` `Java` `Selenium`

➔ Completed API and GUI modernization and refactoring efforts to increase efficiency, stability, and usability of a cross-platform plugin that automates a tedious and error prone process for US-Government host application users
➔ Collaborated on a simple, easy to adopt web API for integrating developers of different backgrounds and skill levels
➔ Conducted UI design reviews with internal and external parties to improve the user experience
➔ Collaborated on the front end to deliver a better user experience, using Bootstrap controls and conforming to strict website accessibility standards on par with the W3C standards
➔ Delivered a modernized release for the plugin with minimal defects in an agile SDLC on a 6 month timeline
➔ Led the development of automated UI testing suites which led to the discovery and remediation of bugs
➔ Supported production systems by answering requests for integration assistance

Software Developer

G3 Technologies Inc. – Ashburn, VA
August 2021 – September 2022

Full stack data driven web applications

`JavaScript` `HTML` `CSS` `Bootstrap` `C#` `ASP.NET` `Elasticsearch` `NoSQL` `Kafka` `Docker` `Kubernetes` `Ansible` `Jenkins CI/CD` `MariaDB` `gRPC` `Python` `Selenium`

➔ Used acquired domain knowledge in cellular technologies to perform ASP.NET (C#) maintenance development and Python automated testing for a full stack data driven web application
➔ Wrote complex Elasticsearch queries to test backend performance and algorithm accuracy
➔ Designed and developed a full stack application to ingest, process, load, and display audio data to end users
➔ Conducted in depth UI design reviews with UI experts
➔ Wrote custom ASP.NET (C#) server controls to meet specific UI and server requirements
➔ Designed and normalized a SQL database using MariaDB to store core application data
➔ Participated in a culture of programming and documentation standards, in-depth code reviews, and extensive testing

Side Projects

k-h-phillips.github.io ⬈ *(ongoing)*

➔ Web development project deployed with GitHub pages and built with React, Next.js, NextUI, and Tailwind CSS
➔ Created to offer more information about me, display my resume, and showcase some web design skills

Codecademy Full-Stack Engineer Professional Certification
(completed Sept. 2024)

➔ 51 courses and more than 150 hours of coursework to hone software engineering skills and learn new technologies

Education

Bachelors of Science in Computer Science
University of Virginia School of Engineering and Applied Sciences

3.88 GPA

➔ Software Development Methods, Program & Data Representation, Advanced Software Development, Computer Architecture, Algorithms, Operating Systems, Compilers, Programming Languages for Web Applications, Database Systems