Samuel Adamson

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Education

BS, Computer Science, Minor in Mathematics, GPA: 4.0   **Expected Graduation: Dec 2023**
University of Colorado – Colorado Springs, CO

Courses: Data Structures, Algorithm Design & Analysis, Software Development, C/C++ Program Design, Database Analytics, C#/.NET Object Oriented Programming, Computer Architecture, Computational Statistics

Experience

MITRE – Colorado Springs, CO   May 2022 – Present
Software Engineer Intern

- Improved **cluster computing surveillance** by implementing a resource utilization leaderboard for individual users, administrators, and projects/teams (**ReactJS, Python, Django, Redis Cache, Celery**)
- Increased **high performance computing** surveillance capabilities/coverage by building and deploying an analytics command line tool which generates usage reports for users and projects (**Python, Pandas, Matplotlib, SMTP, mySQL**)
- Collaborated with the **National Geospatial Agency** to employ utilization tracking on an external computing cluster

Monument Health – Grand Junction, CO   May 2021 – June 2022
Data Engineer

- Created automated cloud-based Extract Transform Load **(ETL)** Pipelines for over 50 unique protected health data sources (**Python, Pandas, SQL, Google BigQuery, Google Cloud Platform [GCP]**)
- Led the acquisition and migration of an enterprise health and wellness application from an external vendor to an in-house platform (**PHP, mySQL, Apache Web Server, Amazon Web Services, Google Cloud Platform**)

Grand Mesa Software – Grand Junction, CO   May 2020 – May 2021
Information Technology Intern

- Improved functionality of **port knocker application** running as a windows background service (**C#, VisualBasic**)
- Managed the **installation** and **configuration** of a new file server, switch, router, firewall, and wireless access network for an independent organization with ~50 onsite employees

Projects

Cryptocurrency Sparkline – Website – GitHub   Oct 2021 – Nov 2021

- Developed a website which displays live updated prices, market caps, and other financial data of various cryptocurrencies. Developed a chart component which displays the pricing data in a sparkline format. (**ReactJS, ExpressJS, NodeJS, HTML, CSS, Bootstrap**)

Airport Proximity/Weather Mapping – GitHub   May 2021

- Created geographical plots of optimal locations in the continental US based on airport proximity and quality of weather using data in Google BigQuery public datasets (**Python, Pandas, GeoPandas, MatPlotlib**).

County Site Redesign – Website – GitHub   Oct 2021

- Improved and overhauled local county clerk website with updated UI/UX and modern design (Single Page Application)
- Led a team of 4 in planning design, utilizing development tools, and creating an intuitive layout resulting in a final grade of **100%** and approval from local county officials (**ReactJS, HTML, CSS, Bootstrap**)

Programming Skills: Python, SQL, R, C#, C, C++, JavaScript/TypeScript

Other: Pandas, Git, Django, ReactJS, ExpressJS, NodeJS, HTML5, CSS3, MaterialUI, Google Cloud Platform, Tensorflow

Interests: Competitive Weightlifting, ISSA Certified Personal Trainer - Fitness Plans & Youth Strength/Conditioning Clinics