Samuel Adamson

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Education

BS, Computer Science, Minor in Mathematics, GPA: 4.0 **Expected Graduation: May 2024**
University of Colorado – Colorado Springs, CO

Courses: Data Structures, Algorithms, Software Development Methods/Tools, Advanced Software Engineering, C/C++ Program Design, Databases, C#/.NET Object Oriented Programming, Computer Architecture, Discrete Mathematics

Experience

J.P. Morgan Chase & Co. – New York City Metropolitan Area June 2023 – August 2023
Software Engineer Intern

- Enabled firmwide surveillance of large language model (LLM) cost utilization, by implementing a cost dashboard web application (**ReactJS, Jest, Python, Flask, Azure, Amazon Web Services**)
- Optimized cost utilization REST API performance through batching and data shaping, resulting in a reduction in average response time by ~95% (**NoSQL, DynamoDB, Python**)

Carrier Corporation – Syracuse, NY January 2023 – May 2023
Software Engineer Intern

- Designed and implemented a feature for HAP6.0, an energy analysis tool for indoor temperature control, which allows users to import standardized 3D data to efficiently model building geometry (**C#, .NET, gbXML, Linear Algebra**)
- Achieved feature completion ~25% ahead of schedule using principles of agile development (**Agile Framework**)

MITRE – Colorado Springs, CO May 2022 – January 2023
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 deploy utilization tracking on an external compute cluster

Monument Health – Grand Junction, CO May 2021 – May 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**)
- Led the acquisition and migration of an enterprise health and wellness application from an external vendor to an in-house platform (**JavaScript, mySQL, Apache Web Server, Amazon Web Services, Google Cloud Platform**)

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

- Developed user interface for a port knocker application windows service (**C#, .NET, 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

University of Colorado – Colorado Springs, CO Aug 2022 – Present
Teaching Assistant - CS2300 Computational Linear Algebra

- Prepared and presented weekly computational linear algebra lessons for ~90 students (**Python, Linear Algebra**)

Projects

Airport Proximity/Weather Mapping – GitHub May 2021

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

Certifications: HashiCorp Terraform Associate
Programming Skills: C++, JavaScript/TypeScript, Python, C#, SQL, R
Other: Terraform, Pandas, Git, .NET, Node, React, Django, Flask, HTML5, CSS3, AWS, GCP, Azure
Interests: Competitive Weightlifting, Street Lifting, Competitive Programming