Andrew Hernandez

Westminster, CO

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SUMMARY

Software Engineer with expertise in backend automation, distributed systems, and system integration. Proficient in Python, Docker, and REST APIs, with a focus on building reliable, scalable software solutions.

SKILLS

Languages: Python, Java, JavaScript/TypeScript, SQL, Bash
Libraries & Tools: Pandas, Numpy, Docker, Linux (RHEL), GitLab CI/CD, Splunk, Databricks
APIs & Cloud: REST APIs, Microsoft Graph API, Azure SDK, Cloudflare

PROFESSIONAL EXPERIENCE

SAIC Remote

Software Engineer *Sep 2023 – Present*

- Gathered requirements and translated user needs into a consistent, enterprise-wide network monitoring solution across clustered RHEL environments.
- Built backend automation and integrations with Python and APIs, enabling consistent data flow and communication across distributed systems.
- Developed and executed unit and QA tests in a dev environment, then managed production deployment with post-launch maintenance and performance tuning to ensure system stability and scalability.
- Implemented AI-driven automation pipelines in Databricks using Python, reducing manual reporting labor by 55% and standardizing analysis for global stakeholders.

SAIC Remote

Software Engineer Intern *Apr 2023 – Sep 2023*

- Provisioned a development environment by containerizing RHEL servers with Docker and configuring Git-based version control, creating a reliable platform for testing and development.
- Developed software features and automation using Python and JavaScript, enhancing dashboards and alerting systems to improve monitoring and operational awareness.
- Validated reliability of new features through controlled testing prior to deployment, ensuring stability and smooth integration into production systems.

U.S. Department of State, Bureau of Diplomatic Technology Hybrid | Washington, D.C.

Software Engineer Intern *Feb 2023 – Apr 2023*

- Designed and implemented data collection workflows by scraping public-facing embassy and personnel websites with Python, building a reliable data source for classification.
- Developed data validation and enrichment processes by integrating machine learning models to cross-check new data against indexed sources, improving accuracy by 20%.
- Tested and refined system reliability through iterative validation, ensuring accurate classification of high-value personnel for diplomatic operations.

EDUCATION

Associate of Science in Computer Science Northern Virginia Community College, Annandale, VA