Ashley King

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SUMMARY Diligent problem solver with hands-on experience in CI/CD environments. | Demonstrated knowledge in Python, Java, C/C++, C#, and SQL | Skilled with Machine Learning and Data Mining techniques | Over 2.5 years of internship experience

EDUCATION

North Carolina State University, Master of Science: Computer Science

May 2023

Participated in AI Club and WICS (Women in Computer Science) Courses: Auto Learning Data Analysis, Software Engineering

Appalachian State University, Bachelor of Science: Computer Science

May 2021

Graduated Summa Cum Laude with a 3.96 GPA and Departmental Honors

Courses: Graduate Data Mining, Graduate Advanced Machine Learning, Database, Data Acquisition and Visualization, Operating Systems

TECHNICAL EXPERIENCE

Graduate Intern | SAS Institute

May 2021 – Current

- Part of a QA team which collaborated in an agile environment with architects and DevOps to identify areas
 of improvement and test cases, and develop best practices
- Decreased running time and error by containerizing projects and integrating with Microsoft Azure
- Projects implemented using Git, Jenkins, Python, Docker, and Azure

Year-Round Cyber Test Engineering Intern | SAS Institute

Oct 2020 – May 2021

- Automated cases and reduced overall running time of test suites using Cypress
- Created Jenkins jobs to build, execute, and destroy containerized tests
- Projects implemented using Git, Jenkins, Docker, JavaScript, Azure, and Cypress

PROJECTS

Research - Undergraduate Honors Thesis: Completed an undergraduate honors thesis titled "Poisson Matrix Factorization for T.V. Recommendations". Introduced Poisson Matrix Factorization into a Python Recommendation library, and successfully built and tested a Recommendation System with a FCP score of 0.70

Data Science and Machine Learning - Redfin Housing Analysis: Utilized Python to scrape, visualize, and build Machine Learning models based on Redfin housing data with an average MSE score of \$100K.

Reinforcement Learning - Cart Pole and Acrobot: Utilized Python to build PyTorch Reinforcement Learning models using Open AI environments. For Cart Pole, the agent was able to successfully balance a pole on a cart for 200 turns 97.5% of the time. For Acrobot, the agent was able to successfully maneuver a pivot point above a threshold in 95 turns.

Data Science and Machine Learning – Classifying Parkinson's Disease: Used Classification Techniques to identify if a patient had Parkinson's Disease based upon speech pattern data. Using Random Forests and Python, a test accuracy of 86% was achieved

TECHNICAL SKILLS

Programming Languages Python, C, JAVA, C#, JavaScript, SQL, R

Database MySQL 5, SQL, Postgres

Others AWS, Selenium, Visual Studio, Git, PyTorch, Jira, Bitbucket, Jenkins, Azure