Joshua Fordyce

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https://github.com/joshuaFordyce

EDUCATION

Fordham University   New York, New York
Bachelor of Science in Information Science   December 2022
Relevant Coursework: Database Systems, Linux/Unix Systems, Computer Networks, TCP/IP Networking, Data Structures
Codepath Certificate   New York, New York
IOS development course, Data Structures and Algorithms

SKILLS

Languages: Python, C++, Shell Scripting, Swift, C
Devops/Site Reliability Engineering: shell scripting,Terraform, GCP, AWS,Ansible,Prometheus,Vmware,kubernetes
Framework: Django, Linux, Uikit
Fundamentals: TCP/IP Networking protocols, Linux/Unix Bash Scripting,Linux internals,

EXPERIENCE

Fiserv - Payment Transaction API Team   **Berkeley Heights, NJ**
Backend API Software Engineer   January 2023 -
Present
- Designed and implemented REST API endpoints to allow financial systems to effectively process late transactions and email alerts utilizing .Net, REST API Framework & C# which resulted in a 25 percent increase in Client Adoption
- Monitored and Troubleshoot application issues escalated from financial institution clients utilizing fortify, splunk, and Azure Monitor to improve Application Availability by 32 percent
- Reduced Cybersecurity Vulnerabilities by 40 percent in Payment Transaction REST API to allow for multi-billion dollar financial institutions to process transactions utilizing .Net, REST API framework, & C#

Palo Alto Networks - Infrastructure & Reliability Team   **New York, NY**
Site Reliability Engineer - Intern   May 2022- December
2022
- Designed and implemented an automation framework consisting of shell scripts that automated the deployment and management of Google Cloud Bigquery datasets for learning environment servicing 200+ users monthly
- Created an automation framework consisting of python scripts that automated the management of Google cloud platform networking, computing, and Google kubernetes engine components to create a firewall learning environment that serviced over 300+ users monthly
- Led the adoption of automated Data Center Management and monitoring of IT infrastructure utilizing Device42, RestAPI, Terraform contributing to a 30 percent increase in datacenter visibility.
- Acted as a first point of contact for Training environment infrastructure availability and reliability issues utilizing Splunk and linux performance tools leading to an 32 percent decrease in infrastructure downtime

Fordham Computational Chemistry Lab - Data Science Team   **New York, NY**
Research Software Engineer   May 2021- June
2022
- Built a Classification Model for computational experiments of perovskite crystal formation in different environments
- Deployed Classification Machine Learning algorithm utilizing Django REST API for open source use
- Optimized exploratory data analysis and Machine Learning Algorithm utilizing python cprofile module to improve compilation speed speed by 22 percent
- Performed Python Compilation latency experiments to determine the optimal for our python code leading to an increase of 21 percent

Fordham Robotics & Computer Vision Lab - Robotics Navigation Team   **New York, NY**
Research Software Engineer   May 2021- June 2022
- Designed and implemented Automation Framework consisting of python and shell script for testing of Novel Non-GPS Assisted Navigation algorithm
- Configured Robotics Linux system by updating raspberry pi system and installing system dependencies
- Created python scripts for navigation experiments to do wha
- Identified Bottlenecking and performance issues utilizing linux tuning tools to improve Raspberry Pi cpu performance by 23 percent

United States Air Force - 644th Combat Communications Squadron   **Yigo, Guam**
RF Systems Support Engineer   Nov 2015, Aug 2019

- Deployed, sustained, troubleshoot and repaired the Radio communications devices enabling the Air Force to protect US interests abroad
- Performed Red-team exercise to test partner nation defenses leading to increased deployment readiness

RELATED PROJECTS

Ecommerce Project in Django
https://github.com/joshuaFordyce/Ecommerce-Project-in-django
- Developed an admin page with create, update, and delete privileges
- Implemented a dynamic product catalog with the django framework
    - managed shopping site, using django's javascript, Bootstrap

Automatic Investment Recommendation Engine
https://github.com/joshuaFordyce/quantitative-value-strategy
https://github.comjJoshuaFordyce/S-P-500-replication-script-in-python
- Implemented RV, HQM, and a custom algorithm/strategy
- Utilized: Python, Numpy, Pandas, XslX library