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 Course

SKILLS

Languages: C#, Python, C++, Shell Scripting, Swift, C, JavaScript, TypeScript
Devops/Site Reliability Engineering: Linux/Unix Bash Scripting, Terraform, GCP, AWS, Ansible, Prometheus, Kubernetes,Docker
Framework: .Net, ASP.Net, Angular, Django, Linux, Uikit

EXPERIENCE

Fiserv - Payment Transaction API Team **Berkeley Heights, NJ**
Backend API Software Engineer January 2023 - Present

- Assembled REST API endpoints to allow financial systems to effectively process late transactions and email alerts utilizing .Net, C# which resulted in a 25 percent increase in client adoption
- Solved application issues financial institution clients utilizing Fortify and Splunk to improve application availability by 32 percent
- Reduced cybersecurity vulnerabilities by 40 percent in Payment Transaction REST API utilizing .Net, 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 utilizing Device42, RestAPI, and Terraform contributing to a 30 percent increase in datacenter visibility.
- Improved security posture of GCP assets by configuring network security rules using GCP CLI

Fordham University 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
- Optimized data analysis and machine learning algorithm utilizing python cprofile module to improve compilation speed by 22 percent
- Utilized linux perf tools to improve compilation speed by 15 percent

Fordham University Robotics & Computer Vision Lab - Robotics Navigation Team **New York, NY**
Research Software Engineer Jan 2022- June 2022

- Programmed automation framework utilizing python for testing of novel Non-GPS Assisted Navigation Algorithm
- Constructed Robotics Linux system by updating raspberry pi system and installing system dependencies
- Rectified Bottlenecking and performance issues utilizing linux tuning tools to improve 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 a
- Performed Red-team exercise to test partner nation defenses leading to increased deployment readiness

RELATED PROJECTS

PerkovsitePrediction-AI **June 2022 - Jan 2023**
https://github.com/joshuaFordyce/cheminformatics-project.git

- Productionized classification model utilizing Flask WebAPI
- Containerized machine learning powered WebAPI application utilizing Docker and DockerHub
- Automated local deployment, orchestration and implemented monitoring of application utilizing MiniKube and Ansible
- Automated deployment of Dockerized application to Azure Container Instances utilizing Azure and Ansible

CommandsAPI **May 2022**
https://github.com/joshuaFordyce/CommandAPI.git

- Developed Rest API that returns linux and windows terminal commands using .Net and C#
- Containerized .Net application and locally tested application utilizing Docker and Minikube
- Deployed containerized application to Azure Container Instance service