Joshua Mark Fordyce

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EDUCATION

Georgia Institute of Technology	**Atlanta, Georgia**
Master of Science in Computer Science	May 2026

Relevant Coursework: Operating Systems, Artificial Intelligence, Machine Learning

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

SKILLS

Languages: Python, C++, Swift, C
DevOps/Site Reliability Engineering: Shell Scripting, Terraform, GCP, AWS, Ansible, Prometheus, Kubernetes, Docker
Framework: Django, Linux, Flask, FastAPI

EXPERIENCE

Oracle Cloud Infrastructure	**New York, NY**
Cloud Solution Engineer	Sept 2023 - Present

- Developed microservices in Python and Graphql for automation of service request response, enabling faster service request to turn around by 80 percent
- Configured Jenkins CI/CD pipeline for easier deployment of cloud native microservice
- Created Oracle Database backup recovery using OCI and ShellScript to increase database reliability by 10 percent
- Automated Kubernetes management with Terraform to reduce Kubernetes issues by 20 percent
- Collaborated with internal database and infrastructure teams to address escalations to reduce customer downtime by 15 percent
- Troubleshot escalated enterprise tickets with Oracle service teams and support engineers reducing ticket backlog
- Monitored Oracle Kubernetes infrastructure increasing application uptime by 10 percent

Fiserv – Payment Transaction API Team	**Berkeley Heights, NJ**
Cloud Native Developer	Jan 2023 - Sept 2023

- Architected a cloud-based solution to migrate on prem database to Azure utilizing Azure, and C# to reduce capital expenditure
- Implemented Multi-Factor Authentication for internal admin REST API utilizing OpenID SDK to increase application security by 10 percent
- Implemented server-side rate limiting utilizing C# to ensure responsible and optimal API usage
- Solved application issues for fintech clients utilizing Splunk and SQL to improve API availability by 32 percent
- Configured messaging between fintech clients and their customers using Rabbitmq integration

Palo Alto Networks – Infrastructure & Reliability Team	**Remote**
Site Reliability Engineer Intern	May 2022 - Dec 2022

- Implemented an automation framework utilizing shell scripts that managed GCP BigQuery datasets for learning environment servicing 200+ user monthly
- Automated the management of a firewall learning environment on GCP platform using python scripts to service over 300 + monthly
- Acted as a first point of contact for learning environment infrastructure issues utilizing Splunk and Linux performance tools leading to a 32 percent decrease in infrastructure downtime

RESEARCH

Georgia Institute of Technology- Kaggle Research Team	**Remote**
Research Software Engineer	Jan 2024 - Present

- Developed a novel Temporal Persistent Information Retrieval System using Elastic Search and python
- Designed a novel Temporal Persistent sentiment analysis binary classification model
- Deployed sentiment analysis model utilizing FastAPI
- Built an information retrieval application utilizing FastAPI and ElasticSearch
- Maintained and managed ElasticSearch clusters for research use