

# Isaac M

M.S – Information Technology

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## DevOps Engineer – Traive Inc

04/2022 – Present

- Designed and built a secure multi-account AWS environment and network architecture
- Wrote Terraform modules to allow developers easily spin up infrastructure that meets organizational high availability, compliance, and security standards.
- Built a Change Data Capture (CDC) system using Debezium and JDBC connectors running on AWS MSK Connect and AWS MSK (Managed Streaming for Kafka)
- Built various Infrastructure-as-Code managers to allow developers perform tasks such as standing up new microservices or Kafka topics with just a one-line pull request.
- Improved security posture by spearheading and enforcing the adoption of centralized secret management, eliminating the need for manually managed and shared .env files
- Instituted least privilege cloud infrastructure and account access for all principals using tools such as IAM Access Analyzer, IAM Zero and IAM Live

## Software Engineer – Dow Jones

06/2021 – 04/2022

- Built systems that leverage machine learning to produce natural language content
- Built serverless microservices using AWS Step Functions, AWS Lambda, and DynamoDB
- Wrote infrastructure as code to deploy these systems using Terraform and AWS SAM
- Built CI/CD pipelines and automation using Jenkins Pipeline and TeamCity

## Software Engineer Intern – Global Traffic Technologies

06/2020 – 11/2020

- Developed microservices that leveraged MQTT and IoT Core to control traffic IoT devices
- Built the interface to view provisioned IoT devices using HTML5, Express and Node.js
- Wrote unit, API, integration, and end-to-end tests to ensure system correctness

## Software Engineer Intern – Hennepin County.

05/2019 – 06/2020

- Built chatbots using C#, the Microsoft Bot Framework, and Azure Bot Service
- Maintained and added features to web applications that power county services
- Reduced time to create progress reports by building a data warehouse
- Built continuous integration/continuous deployment (CI/CD) pipelines

## Skills

- Infrastructure-as-Code
- Automation and CI/CD
- Cloud-native Architecture
- Cloud Security Posture

## Tools

- Python, Node.js, C#
- Terraform, CDKTF, Packer
- Kubernetes (EKS), Helm, Datadog
- GitHub, GitLab, Spacelift