

EXPERIENCE

- **State Farm** Richardson, TX
Software Engineer Sep. 2022 - Present
 - **Cloud Migrations:** Gathered requirements from business partners in the legal, information security and enterprise technology departments to re-architect existing applications for cloud deployment into AWS and Azure.
 - **Development, Security, and Operations Pipelines:** Developed pipelines that enforced best security practices with code scanning, code building and deployment to the application web servers and Linux environments.
 - **Web Applications:** Supported and enhanced business unit applications to meet the requirements of stakeholders in the information security department, specifically by writing Java code against firewalls and internal APIs.
 - **Automation:** Utilized Python in conjunction with AWS Lambda for moving cron job scripts from on-prem to AWS.
 - **Development Environment:** The application code and libraries are primarily written in Java with the Spring Boot Framework, hosted on Apache Tomcat. This interfaces with IBM DB2 and Postgres databases. The infrastructure code is written in Terraform HCL and deployed to an AWS environment with Lambda (Python), EC2, Route 53 and Elastic Load Balancing components.
- **Tyler Technologies, Inc.** Plano, TX
Software Developer May. 2021 - Sep. 2022
 - **Research:** Customer facing service that provides court and case information to legal professionals and the general public.
 - **FirmSync:** Contributed to backend service for making court and case data in Research available via endpoints.
 - **Machine Learning Pipeline:** Developed data pipeline to feed into ML algorithm to determine customer churn using Python (Pandas, Numpy), S3, Lambda, and SQL.
 - **Testing:** Utilized NUnit and Moq to write unit tests for API endpoints; followed Page Object Model when writing Selenium UI tests.
 - **Automation:** Modified Github Actions pipelines for the purpose of calling AWS ECR and EC2 to build and deploy Docker containers.
 - **Development Environment:** Microservice based; AWS, ElasticSearch, C#, SQL, AngularJS.
- **Projects** Remote
Passion Projects Aug. 2018 - Present
 - **TranslateSongs:** A passion project for learning Chinese language from music. I researched 80+ academic papers and incorporated their findings into the design and functionality of this site. It is hosted on AWS with four Docker containers and an Nginx reverse proxy.
 - **Type A Student:** Currently migrating to AWS. Created a financial and college planning website based on personal experiences with dual-enrollment and finishing college in three years.

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
MS Computer Science Aug. 2022 - Dec. 2024
 - **Relevant Coursework:** Concentration in Computing Systems; Operating Systems, Knowledge-Based Artificial Intelligence, Machine Learning for Trading. Education Technology, Computer Networks
- **University of Georgia** Athens, GA
BBA Management Information Systems; GPA: 3.92/4.0 Aug. 2017 - Aug. 2020
 - **Relevant Coursework:** Concentration in Data Analytics; Certificate in Computing, which included Computer Science I & II, Data Structures, Advanced Data Analytics, Systems Programming, and Systems Analysis and Design

SKILLS AND CERTIFICATES

- **Technical:** Java, Git, Bash, Amazon Web Services, Terraform, Scalr, SageMaker, C#, SQL, Python, Elasticsearch, SMSS, AngularJS, HTML, CSS, Proficiency in Microsoft Office Suite
- **Certificates:** AWS Certified Cloud Practitioner, HashiCorp Certified: Terraform Associate, Lean Six Sigma Yellow Belt