William Vega

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EXPERIENCE

- **State Farm** — Richardson, TX
  Software Engineer — *Sep. 2022 - Present*
  - **Cloud Migrations**: Gathered requirements from business units including legal, information security and business partners 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 writing against firewalls and internal APIs.
  - **Development Environment**: The application code and libraries are primarily Java with the Spring Boot Framework hosted on Apache Tomcat and Bootstrap. This interfaced with IBM DB2 and Postgres databases. The infrastructure code was written in Terraform HCL and deployed to an AWS environment.

- **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 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.
  - **Development Environment**: Microservice based; AWS, ElasticSearch, C#, SQL, AngularJS.

- **Projects** — Remote
  Passion Projects — *Aug. 2018 - Present*
  - **TranslateSongs.com**: 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.
  - **Web Scraper**: Utilized Python and Selenium to automate data collection from a legacy portal for a gaming company, Albany Amusement, LLC.

EDUCATION

- **Georgia Institute of Technology** — Atlanta, GA
  MS Computer Science — *Aug. 2021 – 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