

MAX TANG

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EXPERIENCE

Software Engineer I

August 2024 – Present

GEICO

Atlanta, Georgia

- Observed connectivity issues with on-prem servers using iperf and created an alert based on key metrics
- Deployed an internal observability application on a production server to support network engineers
- Encouraged team-wide adoption of modern development tools such as Docker applications and deployments
- Deployed a PostgreSQL and Redis database onto a production server in support of a Flask application.

Software Engineer Intern

May 2023 – August 2023

Deloitte US

Dallas, Texas

- Developed a high-impact Proof of Concept (PoC) for client OpenSearch, optimizing the efficiency of indexing and embedding medical data, showcasing our capability to handle complex data types
- Streamlined the deployment process, achieving seamless Docker container deployment on Amazon ECS by restructuring GitLab CI pipelines, enhancing operational efficiency and deployment speed.
- Boosted data ingress pipeline efficiency by approximately 40% through a test-driven development (TDD) framework, significantly improving data processing speeds.
- Led the initiative to pioneer unit testing implementation on two major systems, ensuring automated, consistent adherence to structured design patterns, and significantly elevating code quality and reliability.

Software Engineer Intern

May 2022 – August 2022

Principal Financial Group

Des Moines, Iowa

- Implemented CI/CD pipeline using Terraform HCL and Github Actions, resulting in a 20% increase in uptime
- Enhanced observability of 100+ applications and processes by leveraging AWS and Dynatrace.
- Strengthened infrastructure security and reliability on AWS, achieving a 10% improvement.
- Successfully migrated 3 applications from on-prem to IaC hosted on cloud infrastructure in AWS.

Software Engineer Intern

December 2021 - May 2022

ADVA Optical Networking

Atlanta, Georgia

- Optimized staging and deployment processes, enhancing the efficiency of business-critical projects.
- Facilitated the viewing and visualizations of machine learning models that assist consistent model uptime.
- Implemented flexible automated solutions in Python, resulting in a 5% increase in product uptime.

EDUCATION

Georgia Institute of Technology

Aug. 2020 – May 2024

BSCS | MSCS (Machine Learning)

Atlanta, Georgia

GPA: 3.82 | Highest Honors | 2 Faculty Awards (4.0 GPA) | Dean's List | Zell Miller Scholarship

Languages: Python, C#, Golang, C++, Java, ReactJS, SQL, Terraform, Flutter

Frameworks: AWS, Azure, GCP, NextJS, ReactJS, FastAPI, Expo, Dart

Certified AWS Cloud Practitioner

PROJECTS

Founding Engineer @ Helios Analytics | Python, NextJS, AWS, Github Actions

- Deployed a full-stack web application with FastAPI as the backend REST API service and NextJS frontend.
- Automated CI/CD pipeline using GitHub Actions and Terraform to deploy the backend on AWS ECS containers
- Utilized Application Load Balancer (ALB) to distribute traffic as well as scale up container provisioning based on CPU usage
- Integrated PostgreSQL database via Amazon RDS for high availability and resilience
- Refactored frontend and backend to reduce dependencies by 80% and deployment time by 50%