MAX TANG

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Experience

Infrastructure Engineer   **May 2024 − Present**
Icarus Capital Management   *Atlanta, Georgia*
- Designed and implemented a CI/CD pipeline using GitHub Actions, automating the deployment process for Docker containers to AWS ECR and ECS, enhancing deployment efficiency and reliability.
- Deployed Prometheus and Grafana on AWS EC2, increasing system health monitoring coverage by 50%.
- Integrated OpenTelemetry, capturing 30% more metrics for enhanced performance insights.
- Improved deployment workflow efficiency by 35%, resulting in a 20% reduction in downtime.

Cloud 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.
- Orchestrated an end-to-end solution strategy, ensuring a seamless, user-friendly experience that drives client satisfaction.

Software Engineer Intern   **December 2021 - May 2022**
ADVA   *Atlanta, Georgia*
- Optimized staging and deployment processes, enhancing the efficiency of business-critical projects.
- Implemented flexible automated solutions in Python, resulting in a 5% increase in product uptime.
- Gained experience in developing robust programs for satellite dish communication.
- Streamlined existing code bases through migration to newer, more modular systems.

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#, C++, Java, ReactJS, SQL, Terraform
Certified AWS Cloud Practitioner

Projects

COVID Tracker and Predictor | *Flutter, Python, Azure, Golang, Firebase*   **August 2021 - May 2022**
- Collaborated with KPMG to develop a web app that tracks and predicts COVID genomes as a web service.
- Used NLP models trained on 1000's nucleotide sequences for prediction through custom REST API.
- Cross-referenced COVID prediction with a regression model to calculate confidence interval within 2%.
- Test website data sat on NoSQL Firebase database while model training data sat on PostgreSQL database.