



DAVID K. TAN

(404) 452-8263

dqtruong@valdosta.edu

Github: Skytruong90, LinkedIn: dtan90/

SECURITY CLEARANCE:

- Active Secret/SAP Clearance

SKILLS

- Proficient AWS
- Advance C++, Python, Java
- Advance Kubernetes, Docker, Jenkins, Terraform
- Proficient Git, GitLab, Bitbucket

EXPERIENCES

Senior Software Engineer, ALKU (BAE Systems), Clearfield, UT

- Reduced simulation runtime by 20% by containerizing legacy C++ applications and orchestrating distributed workloads with Kubernetes, boosting throughput across the Sentinel program.
- Increased team productivity by 25% by developing Python-based automation tools for configuration management and scenario generation, improving scalability and consistency.

Software Engineer III, Space Dynamics Laboratory, Logan, UT

- Boosted integration efficiency by 30% by leading a cross-functional team to containerize satellite control applications with Docker and deploy to scalable AWS-hosted Kubernetes clusters.
- Streamlined DevOps workflows by building Helm charts, automating CI/CD pipelines, and implementing monitoring with Prometheus, enhancing deployment reliability.

Software Engineer II, ECG, Inc., Remote

- Enhanced system performance by 20% through full-stack software development, integration, and testing of mission-critical applications.
- Improved code quality and delivery velocity by collaborating across teams to implement scalable solutions and resolve production issues.

Research Software Engineer I, Google, Remote

- Improved code quality by 25% through implementation of automated unit testing, peer code reviews, and support for CI/CD pipelines within an Agile team.

Software Engineer I, Valdosta State University, Valdosta, GA

- Accelerated prototype development by 30% by optimizing development workflows and implementing Agile methodologies, leading to rapid iteration cycles.

EDUCATIONS

Master of Science, Computer Engineering

Johns Hopkins University - Baltimore, MD

Master of Science, Computer Science

Georgia Institute of Technology - Atlanta, GA

Bachelor of Science, Computer Science

Valdosta State University - Valdosta, GA

ACCOMPLISHMENT

- At BAE Systems, increased system efficiency by 40% through automation and containerization, reducing deployment time from days to hours, while gaining advanced expertise in Kubernetes orchestration and large-scale DevOps workflows.

CERTIFICATIONS

- Project Management Professional (PMP)
- CompTIA Security+